

Φ FRETZ

TOOLS



The pleasure of the process...

Table of Contents.....	3
Hammer Uses.....	4
Jewelers' Hammers.....	5 - 8
Silversmithing Hammers.....	9 - 10
300 Series Hammers.....	11
Precisionsmith Hammers.....	12 - 13
Michael Good Hammers.....	14
Revere Hammers.....	15
Hammer Sets.....	16 - 17
Holders.....	18
Workbench.....	19
M-100 Series Stakes.....	20 - 22
Michael Good Stakes.....	23
100 Series Master Set.....	24
Bezel Forming Stakes.....	26
Forming Stakes.....	27
Hollow Ring/Raising Stakes.....	28
Progressive Fluting Stakes.....	28
Mushroom Stakes.....	29
Bench Anvils.....	30
H-2 Insert Stakes.....	31
H-2 Insert Wheels.....	32
MA Mushroom Series Stake.....	33
Stake Sets.....	34 - 39
Wooden Stands.....	40
DVD and Tool Sets.....	41 - 45
Malleable Brass.....	46
Brass Circle.....	47
Argentium Ear Wires.....	48
Argentium S-Clasps.....	48
Argentium Head Pins With Single Ball.....	49
Argentium Head Pin With 4 Ball Granulated Cluster....	50
Argentium Granuals.....	52
Argentium Cluster Kits.....	54



Fluting with the HMR-8 Hammer and Progressive Stakes

FRETZ HAMMERS AND THEIR USES

Planishing is smoothing the metal against a stake by making the hammer blows overlap. This is a stretching technique which forms the metal to the underlying stake. Planishing can be on flat, convex or concave shapes.

Raising is the compression of metal down to the stake without stretching it. The technique involves angling the metal off the stake so there is an air gap for the compression of the metal.

Embossing is the stretching of the metal by hammering from the inside of the form. This group of hammers is also used to form flutes and form the metal while it is supported by pitch or wax. This is similar to chasing but is done by directly striking the metal with the appropriate hammer.

Blocking is a form of embossing when the metal is hammered into a hollow cavity. Free form Blocking is done with a sandbag.

Chasing is a way of forming the metal with a hammer and small chisels or punches. The metal is compressed downwards as the chisel strikes the metal over pitch, wax or an underlayment that supports the overall form.

Riveting is the compression of a rod or tube so the ends flare and hold two or more units together as the rod or tube passes through the parts. The Riveting Hammer's crosspein end flares the rod so it develops a head and the broad face smoothes out the flaring marks.

FRETZ JEWELERS' HAMMERS



HMR-1 PLANISHING HAMMER

The Planishing Hammer is for smoothing metal. The round side is used if the metal has previous raising hammer marks and these need to be smoothed out.

The flat side will refine the hammer marks from the rounded side of the Planishing Hammer to a nearly smooth finish. This is the most used hammer.

FACE SIZES: 19mm and 19mm - HEAD LENGTH: 74mm - HANDLE LENGTH: 220mm



HMR-2 WIDE RAISING HAMMER

The Wide Raising Hammer can be used to raise sheet metal into a bowl against a wooden stake or a metal T-stake. It is also useful for raising in cylinders to form a concave shape. This same hammer also makes it possible to planish subtle concave shapes.

FACE SIZES: 20mmx10mm and 20mmx8mm - HEAD LENGTH: 74mm - HANDLE LENGTH: 220mm



HMR-3 NARROW RAISING HAMMER

The Narrow Raising Hammer is for raising small cylinders and concave shapes. The thinner heads allow the hammer to fit into tighter curves for raising and planishing. It is also useful for forging.

FACE SIZES: 20mm x 6mm and 20mm x 5mm - HEAD LENGTH: 74mm - HANDLE LENGTH: 220mm



HMR-4 LARGE EMBOSSING HAMMER

The Large Embossing Hammer is used to dome metal from the inside. The metal is stretched from the inside as it is supported on a sandbag or a depression carved in wood. Doming a piece of metal before raising makes it easier to control because the shape becomes rigid. The Embossing Hammer also leaves a very interesting dimpled texture on flat and slightly domed metal when hammering on the outside of a form against a stake.

FACE SIZES: 15mm x 12mm - HEAD LENGTH: 74mm - HANDLE LENGTH: 220mm



HMR-5 SMALL EMBOSSING HAMMER

The Small Embossing Hammer is used to form small raised areas by hammering from the inside in preparation for chasing or general shaping. This hammer leaves a very fine dimpled texture that can be greatly varied by the strength of the blow.

FACE SIZES: 5mm and 3mm - HEAD LENGTH: 72mm - HANDLE LENGTH: 220mm





HMR-6 PLANISHING HAMMER W/ INSERTS-SINGLE ENDED VERSION

This Planishing Hammer has a single nylon end which can be removed with a Hex Key. The flat nylon end forms metal while leaving it smooth. The metal end is slightly domed to make it easier to strike flat and slightly domed metal. Designed primarily for the bench jeweler who sizes rings and only wants one hammer.

FACE SIZES: 19mm and 19mm - HEAD LENGTH W/O ENDS: 72mm - HANDLE LENGTH: 220mm



HMR-7 DOUBLE ENDED INSERT HAMMER

The Double Insert Hammer has nine (9) nylon ends that work metal without leaving marks. The range of shapes of the inserts duplicates planishing, embossing and raising hammers. Useful for forming metal without stretching. The hammer has enough weight to move metal with assurance.

FACE SIZES: 19mm - HEAD LENGTH W/O ENDS: 72mm - HANDLE LENGTH: 220mm



HMR-8 ROUNDED NARROW RAISING/EMBOSSING HAMMER

The Rounded Narrow Raising Hammer can emboss narrow pod or oblong shapes. Smoother overlapping marks are easier on long thin shapes than with a round embossing hammer. A good hammer to form curved flutes.

FACE SIZES: 19mm x 6mm - HEAD LENGTH W/O ENDS: 73mm - HANDLE LENGTH: 220mm



HMR-9 ROUNDED WIDE RAISING/EMBOSSING HAMMER

The wide & longer profile of this hammer makes it ideal to block bowls and broader width strips into concave shapes. As with all embossing hammers, this hammer is intended to stretch the metal from the inside. This hammer is useful for forming broad flutes with stake and pitch.

FACE SIZES: 19mm x 10mm and 19mm x 7mm - HEAD LENGTH W/O ENDS: 73mm

HANDLE LENGTH: 220mm





HMR-12 SHARP TEXTURING/RAISING HAMMER

This Hammer is for rings and other surfaces when sharp parallel hammered textures are needed. It can also be used to make extreme tight curves when raising portions of jewelry.

FACE SIZES: 19mm x 1mm and 19mm x 1.5mm - HEAD LENGTH W/O ENDS: 72mm

HANDLE LENGTH: 220mm



HMR-13 SHORT SHARP TEXTURING / RAISING HAMMER

A substitute for HMR-12 when textures on wire or very small surfaces are desired.

FACE SIZES: 15mm x 1mm and 15mm x 1.5 mm HEAD LENGTH W/O ENDS: 72mm

HANDLE LENGTH: 220mm



HMR-14 TEXTURING HAMMER - "RAW SILK"

A planishing hammer with randomly ground heads that gives the texture of "Raw Silk". Similar to a texture that could be rolled onto flat metal but not possible with dimensional shapes.

FACE SIZES: 19mm and 19mm - HEAD LENGTH: 74mm

HANDLE LENGTH: 220mm



HMR-15 TEXTURING HAMMER - "CIRCLE IMPRINTS"

This Hammer makes a swirling texture by overlapping the blows.

The more the surface is textured, the more dramatic the swirling effect.

FACE SIZES: 5mm and 3mm HEAD LENGTH: 73mm

HANDLE LENGTH: 220mm





HMR-17 THE CHASING HAMMER

A modern design chasing hammer of medium weight. The handle has a pistol grip. The balance of this hammer makes each hammer blow effortless.

FACE SIZES: 29mm and 12mm

HEAD LENGTH: 69mm - HANDLE LENGTH: 240mm



HMR-19 JANUS CHASING HAMMER

The Janus Hammer, named for the two-faced god, is a double faced chasing hammer with a straight handle and pear shaped grip. One face is parallel with the handle, the other is slightly tilted. The different angles make various working positions possible.

FACE SIZES: 28mm and 28mm

HEAD LENGTH: 66mm - HANDLE LENGTH: 260mm



HMR-20/HMR20 M CHASING HAMMERS

These chasing hammers are classic shapes with pistol grip handles. The HMR-20 is the heavy weight version for heavy gauge metal while the HMR-20 M is of medium weight.

HMR-20 : FACE SIZES: 31mm and 13mm

HEAD LENGTH: 74mm - HANDLE LENGTH: 235mm

HMR-20M : FACE SIZES: 31mm and 13mm

HEAD LENGTH: 68mm - HANDLE LENGTH: 235mm



HMR-21 GOLDSMITHING HAMMER

The Goldsmithing Hammer is the bench jewelers' choice for ring sizing and bezel work. The crosspein end is slightly curved, making a very interesting texture. The long handle allows the craftsperson to grip at different positions to change the striking force.

FACE SIZES: 17mm and 12mm x 2mm

HEAD LENGTH: 91mm - HANDLE LENGTH: 290mm



HMR-22 "SANDSTONE TEXTURE" HAMMER

The HMR 22 when used with overlapping blows will result in a texture similar in appearance to broken sandstone. This texture can add dramatic contrast when used next to smooth surface areas.

FACE SIZES: 19mm

HEAD LENGTH: 75mm - HANDLE LENGTH: 238mm



SH-1 JEWELER'S SLEDGE HAMMER

The SH-1 is a very heavy hammer which makes it ideal to forge and form heavy metal stock. The relatively small round face allows the metalsmith to see the surface of the work as it is being formed. The crosspein end of the hammer moves the metal rapidly as it is being "drawn out".

FACE SIZES: 28mm and 24mm x 4mm

HEAD LENGTH: 133 mm - HANDLE LENGTH: 288mm



SILVERSMITHING HAMMERS



HMR-101 PLANISHING HAMMER

The Planishing Hammer is for smoothing metal. The round side is used if the metal has previous raising hammer marks and these need to be smoothed out. The flat side will refine the hammer marks from the rounded side of the Planishing Hammer to a nearly smooth finish. This hammer is also used to size rings, form bezels and general forming of metal against mandrels and stakes. This is the most used hammer for larger work.

FACE SIZES: 23mm and 23mm - HEAD LENGTH: 75mm - HANDLE LENGTH: 250mm



HMR-102 WIDE RAISING HAMMER

The Wide Raising Hammer can be used to raise sheet metal into a bowl against a wooden stake or a metal T-Stake. It is also useful for raising in a cylinder to form a concave shape. The center of this crosspein is slightly flat. This feature keeps a raised shape uniform without deep creases.

FACE SIZES: 23mm x 12mm and 23mm x 9 mm - HEAD LENGTH: 102mm - HANDLE LENGTH: 250mm



HMR-102P WIDE COLLET HAMMER

The HMR-102P is same as the HMR-102 but the middle of each face is rounded so it fits into concave shapes for planishing.

FACE SIZES: 23mm x 12mm and 23mm x 9mm



HMR-103 NARROW RAISING HAMMER

The Narrow Raising Hammer is used for raising small cylinders and concave shapes. The thinner faces allow the hammer to fit into tighter curves for raising and planishing. It is also useful for forging and texturing.

FACE SIZES: 23mm x 8mm and 23mm x 6 mm - HEAD LENGTH: 102mm - HANDLE LENGTH: 250mm



HMR-104 LARGE EMBOSSING HAMMER

The Large Embossing Hammer is used to dome metal from the inside. The metal is stretched from the inside as it is supported on a sand bag or a depression carved in wood. Doming a piece of metal before raising makes it easier to control because the shape becomes rigid. The Embossing Hammer also leaves a very interesting dimpled texture on flat and slightly domed metal when hammering on the outside of a form.

FACE SIZES: 19mm and 14mm - HEAD LENGTH: 102mm - HANDLE LENGTH: 250mm





HMR-105 SMALL EMBOSSING HAMMER

The Small Embossing Hammer is used to form small raised areas by hammering from the inside of a form in preparation for chasing or general shaping. This hammer leaves a very fine dimpled texture that can be greatly varied by the strength of the blow.

FACE SIZES: 10mm and 7 mm - HEAD LENGTH: 105mm - HANDLE LENGTH: 250mm



HMR-106 BLOCKING HAMMER

The Blocking Hammer is used to sink metal into a form or a sandbag. The head shape is between the Large Embossing HMR-104 ball and the curved end of the Planishing Hammer HMR-101. The extra weight of this hammer is perfect for blocking bowls or large jewelry shapes while leaving the domed surface relatively smooth.

FACE SIZES: 19mm and 14mm - HEAD LENGTH: 105mm - HANDLE LENGTH: 250mm



HMR-107 LARGE INSERT HAMMER

The HMR - 107 is similar to the HMR - 7, but is heavier and larger. The eleven (11) interchangeable ends are ideal for concave and convex forming of large jewelry and small hollowware with the M - 100 Series Mushroom Stakes. This hammer will not mar or stretch the metal.

FACE SIZES: 25mm - HEAD LENGTH: 87mm - HANDLE LENGTH: 250mm



HMR-108 ROUNDED NARROW RAISING / EMBOSSING HAMMER

The Rounded Narrow Raising Hammer can emboss narrow rod or oblong shapes. Smoother overlapping marks are easier on long thin shapes than with a round embossing hammer. This hammer is used to flute convex forms with the M- 113A and the M-113B Fluting Stakes.

FACE SIZES: 7.2 mm x 22.4mm and 3.8 mm x 22.4 mm

HEAD LENGTH: 102 mm - HANDLE LENGTH: 250 mm



HMR-109 ROUNDED WIDE RAISING / EMBOSSING HAMMER

The Wide and Longer profile of this hammer makes it ideal to block bowls and broader width strips into concave shapes. As with all embossing hammers, this hammer is intended to stretch the metal from the inside. The broad curved crosspein faces are ideal for planishing deep concave shapes with the M- 104 and M-105 insert stakes.

HEAD LENGTH: 102 mm - HANDLE LENGTH: 250 mm



300 SERIES HAMMERS



HMR-301 LARGE STRETCHING HAMMER

The HMR-301 is a heavy hammer with an arched head. The curved broad crosspein face makes this an ideal hammer for stretch forming heavy gauge metal. Stretch forming is an ancient way of forming metal by hammering from the inside of a vessel or shape to change the gauge and shape of the metal. The curved head follows the arm in an arc so a fairly deep concave metal surface can be easily worked against a wooden form or a flat anvil surface.

FACE SIZES: 30X24mm and 30x20mm HEAD LENGTH: 160mm HANDLE LENGTH: 280mm



HMR-302 NARROW STRETCHING HAMMER

The HMR-302 is similar to the HMR-301 but with narrower faces. This hammer is the correct choice for stretching and moving the metal within tight curves. The HMR-302 is a good hammer for shaping the area around the opening of a bowl to dome it inward.

FACE SIZES: 30X15mm and 30x9mm HEAD LENGTH: 160mm HANDLE LENGTH: 280mm



HMR-303 BULL PEEN HAMMER

The HMR-303 is a heavy hammer to remove the marks from the inside of a shape that has first been stretched with the HMR-301, 302 or 304 hammers. The HMR-303 has two faces with different widths and curves. The selection of which face is correct will depend on the inside curvature of the project. The larger face is slightly domed while the smaller face is more curved. The weight of this hammer is also useful for forging heavy wire or ingots.

FACE SIZES: 35mm and 30mm HEAD LENGTH: 160mm HANDLE LENGTH: 280mm



HMR-304 EMBOSSING HAMMER

The HMR-304 has a short heavy head that is easy to control while working on shallow concave shapes. The faces are rounded crosspeins. The weight of the hammer makes the process of hammering heavy gauge metal easier because the weight of the hammer does the work rather than swinging a lighter hammer with great arm force. The HMR-304 makes a bold texture on fold formed shapes.

FACE SIZES: 30X20mm and 30x15mm HEAD LENGTH: 128mm HANDLE LENGTH: 280mm



HMR-305 LARGE RAISING HAMMER

The HMR-305 is a broad faced raising hammer that moves the metal quickly when the metal is hammered from the outside of a broad shape. The metal is compressed down to the stake and is left in a relatively smooth condition when compared to bowls or hollowware that are raised with a narrow crosspein. The HMR-305 is often used for angle raising with a R-101 Raising Stake.

FACE SIZES: 30X20mm and 30x15mm HEAD LENGTH: 112mm HANDLE LENGTH: 280mm



PRECISIONSMITH HAMMERS



HMR-401 PRECISIONSMITH PLANISHING HAMMER

The PrecisionSmith Planishing Hammer is the ideal hammer when working on small jewelry elements that need to be planished or textured with a delicate shimmer. The small faces make it easy to see the project as it is being worked.

FACE SIZES: 13mm and 13mm

HEAD LENGTH: 63mm

HANDLE LENGTH: 220mm



HMR-402 PRECISIONSMITH WIDE RAISING HAMMER

The PrecisionSmith Wide Raising Hammer is excellent when forming shallow concave curves on tubing or sheet metal. This hammer also doubles as a collet planishing hammer when subtle metal hammer marks are wanted on wire or plate.

FACE SIZES: 13mm x 6mm and 13mm x 4mm

HEAD LENGTH: 65mm

HANDLE LENGTH: 220mm



HMR-403 PRECISIONSMITH NARROW RAISING HAMMER

The PrecisionSmith Narrow Raising Hammer will fit into very narrow concave forms or grooves. This hammer makes a very interesting long mark texture on domed band rings and other metal projects.

FACE SIZES: 13mm x 3.5mm and 13mm x 2.5mm

HEAD LENGTH: 64mm

HANDLE LENGTH: 220mm



HMR-404 PRECISIONSMITH LARGE EMBOSING

The PrecisionSmith Large Embossing is a texturing hammer that has two ball pein ends. This hammer is for texturing small shapes with a classic shimmering effect.

FACE SIZES: 10mm and 8mm

HEAD LENGTH: 74mm

HANDLE LENGTH: 220mm



HMR-405 PRECISIONSMITH SMALL EMBOSING HAMMER

The PrecisionSmith Small Embossing Hammer gives metal a very small dimpled texture. This hammer texture can vary greatly by changing the force of each hammer blow.

FACE SIZES: 4mm and 2mm

HEAD LENGTH: 63mm

HANDLE LENGTH: 220mm



HMR-406 RIVETING HAMMER

The Riveting Hammer is useful in riveting pin stems and other cold connections. This hammer has a slightly curved crosspein end. Traditionally it is flat. The curved crosspein makes it very useful for texturing flat surfaces. The planishing end is also domed. This is a must have hammer.

FACE SIZES: 9mm Square and 9mm x1.5mm

HEAD LENGTH: 71mm

HANDLE LENGTH: 220mm





HMR-408 PRECISIONSMITH ROUNDED NARROW HAMMER

The Precisionsmith Rounded Narrow Hammer is for embossing thin metal and for direct chasing. The narrow faces are well suited to shape narrow concave forms. As with all curved faced hammers they are easy to use on flat metal.

FACE SIZES: 14mm x 4mm and 13mm x 3mm

HEAD LENGTH: 64mm

HANDLE LENGTH: 220mm



HMR-409 PRECISIONSMITH ROUNDED WIDE HAMMER

The Precisionsmith Rounded Wide Hammer is for broad concave shapes and direct chasing. The broad faces will make sinking small curves smoother and the hammer marks will be subtle. When striking flat sheet the mark will be oval.

FACE SIZES: 13mm x 6mm and 13mm x 4.5mm

HEAD LENGTH: 63mm

HANDLE LENGTH: 220mm



HMR-412 PRECISIONSMITH SHARP TEXTURING HAMMER

The Precisionsmith Sharp Texturing Hammer has straight sharp faces. One face is very sharp and the other slightly less so. The resulting textures are similar to parallel engraved lines. This hammer makes polished metal shimmer.

FACE SIZES: 14mm x 1.5mm and 14mm x 1mm

HEAD LENGTH: 64mm

HANDLE LENGTH: 220mm



HMR-413 PRECISIONSMITH SHARP PETITE HAMMER

The Precisionsmith Sharp Petite Hammer is similar to the HMR-12 but with smaller curved faces. The curved faces make it possible to strike flat metal. A flat face against flat metal is nearly impossible and this hammer overcomes that limitation. The scale of this hammer is very dainty and useful for small jewelry elements.

FACE SIZES: 6mm x 1mm and 6mm x .5mm

HEAD LENGTH: 62mm

HANDLE LENGTH: 220mm



HMR-417 PRECISIONSMITH CHASING HAMMER

The HMR-17 is a small chasing hammer used to chase very fine detailed work. The ballpeen end can also be used for delicate texturing.

FACE SIZES: 21mm x 9mm

HEAD LENGTH: 54mm

HANDLE LENGTH: 220mm





MICHAEL GOOD COLLECTION



CP-1 GOOD CROSS PEIN HAMMER

Michael Good's Cross Pein Hammer is a large jewelers' hammer with an arched head. The working surfaces are straight faces with curved edges. The reach is exceptional for work on Michael's signature complex forms.

FACE SIZE: 28mm x 9mm and 18mm x 3 mm

HEAD LENGTH: 148mm

HANDLE LENGTH: 250mm



CP-2 GOOD CROSS PEIN HAMMER

The CP-2 hammer is the companion hammer to Michael Good's CP-1. It works with shapes that are between the large and small shapes that the CP-1 is used for.

FACE SIZE: 24mm x 4mm and 22mm x 3 mm

HEAD LENGTH: 148mm

HANDLE LENGTH: 250mm



P-1 GOOD PLANISHING HAMMER

This is Michael Good's design for a planishing hammer with unique curves for working on complex curved hollow shapes. The cutaway portion of the hammer neck allows the craftsman to see what is happening as the forming proceeds, and also allows the hammer to reach previously inaccessible areas.

FACE SIZES:

HEAD LENGTH: 20mm and 12.5 mm - HANDLE LENGTH: 250mm





REVERE COLLECTION

CHASING / RIVETING



"Essential for jewelry making, this hammer combines two faces, which are used in different operations. The chasing face is used to strike tools only, not jewelry. Use it for center punches, chasing punches, etc. The surface is not maintained and will show marks and dings, which is fine because this tool is not used on jewelry metals themselves. The riveting face is a small cross peen. It is ideal for upsetting, or spreading the ends of rivets when cold-joining metals. This hammer needs no maintenance. It is required for classes at the Revere Academy of Jewelry Arts in San Francisco, California."

ALAN REVERE



GOLDSMITHING/CROSS PEEN



"This is my signature combination of two essential hammer faces. It is ideal for small forging projects. The cross peen is used to stretch metal in one direction when forging. The goldsmithing face is used for radial forging, moving metal outward in all directions, as well as planishing to remove marks left by the cross peen. Both faces can be used to produce attractive textures. There is no need to polish either end, just keep them tidy with Scotch Brite® or 220 sandpaper. Unless this hammer is the final tool to touch the work, there is no need to polish. This hammer is required for classes at the Revere Academy of Jewelry Arts in San Francisco, California."

ALAN REVERE



FRETZ HAMMER SETS

SET HMR-C CHASING HAMMERS SET



SET HMR-C Includes:

HMR-17 Chasing Hammer
HMR-19 Janus Chasing Hammer
HMR-20 Classic Chasing Hammer-Heavy
HMR-417 Precisionsmith Chasing Hammer
HMR-20-M Classic Chasing Hammer - Chasing

SET HMR-G MICHAEL GOOD HAMMERS



SET HMR-G Includes:

CP-1 Cross Pein Hammer
P-1 Planishing Hammer
CP-2 Cross Pein Hammer



HMR-1 thru 5
HMR-101 thru 105
HMR-401 thru 405

The first five hammers of each series are the most used of the Fretz Hammers. The only difference is the size of the hammers for the scale of the work. Jewelers should start with the HMR-1 thru 5 Set. Metalsmiths who forge and form heavy stock will pick up one of these larger hammers in the HMR-101 thru 105 Set. Those working on very small metal work will appreciate the scale of the HMR-401 thru 405 Set.



The three sizes are illustrated with the planishing hammers.

SET HMR-M MASTER JEWELRY FORMING



SET HMR-M Includes:

HMR-1 Planishing Hammer
HMR-2 Wide Raising Hammer
HMR-3 Narrow Raising Hammer
HMR-4 Large Embossing Hammer
HMR-5 Small Embossing Hammer
HMR-21 Goldsmithing Hammer
HMR-8 Rounded Narrow Raising Hammer
HMR-9 Rounded Wide Raising Hammer
HMR-20 Classic Chasing Hammer - Heavy
HMR-20-M Classic Chasing Hammer - Medium
HMR-7 Double Ended Insert Hammer

SET HMR-T TEXTURE HAMMERS



SET HMR-T Includes:

HMR-12 Sharp Texturing/Raising Hammer
HMR-14 Raw Silk
HMR-15 Circle Texturing Hammer
HMR-22 Sand Stone Hammer
HMR-406 Precisionsmith Riveting /Texturing Hammer
HMR-412 Precisionsmith Sharp Texturing Hammer
HMR-413 Precisionsmith Petite Sharp Hammer

SET HMR-S SILVERSMITHING AND FORGING



SET HMR-S Includes:

HMR-101 Planishing Hammer
HMR-102 Wide Raising Hammer
HMR-102P Wide Rounded Planishing Hammer
HMR-103 Narrow Raising Hammer
HMR-104 Large Embossing Hammer
SH-1 Jeweler's Sledge Hammer
HMR-105 Small Embossing Hammer
HMR-106 Blocking Hammer

SET HMR-PH MASTER PRECISIONSMITH HAMMERS SET



SET HMR-PH Includes:

HMR-401 Precisionsmith Planishing Hammer
HMR-402 Precisionsmith Wide Raising Hammer
HMR-403 Precisionsmith Narrow Raising Hammer
HMR-404 Precisionsmith Large Embossing Hammer
HMR-405 Precisionsmith Small Embossing Hammer
HMR-406 Precisionsmith Riveting /Texturing Hammer
HMR-408 Precisionsmith Rounded Narrow Hammer
HMR-409 Precisionsmith Rounded Wide Hammer
HMR-417 Precisionsmith Chasing Hammer

TOOLS

ALL FRETZ TOOLS ARE MADE FROM DURABLE HARDENED 420 STAINLESS STEEL

TANG SIZES

The following have Small Tangs:
Hollow Ring Stakes R-1, R-2 and R-3
F- Stakes F-1 thru F-9
M-1- thru M-9
B-1 thru B-6
Large Tang Stakes and Holders are;
BH-101
T-101
E-101
R-101 and R-102 "



H-1 The H-1 Holder is the original holder for the Small Tang B (Bezel), M (Mushroom), F (Forming) Series Stakes and the H-2 Holder. The H-1 Holder can be mounted on a sturdy workbench or Wooden Block (VB-1) to use the holder in a vise. The advantage of this holder is that it doesn't extend far beyond the edge of the workbench. The H-1 Holder is supplied with socket head bolts and nuts. The H-1 Holder is not recommended for use with the M-100 Series Stakes.



H-1L The H-1L Holder is for the Small Tang B (Bezel), M (Mushroom), F (Forming) Series Stakes, the H-2 Holder and the M-100 Series Stakes. The H-1L Holder can be mounted on a sturdy workbench or Wooden Block (VB-1) to use the holder in a vise. The H-1L Holder is supplied with socket head bolts and nuts. This is an excellent choice for the M-100 Series Stakes.



H-2 The H-2 has a Small Tang that fits into the H-1, H-1L or the T-101 Holders and in turn holds the Micro Mandrels, Micro Stakes and Insert Wheels. The H-2 Holder makes working on very small hammer forming projects possible.



H-101

The H-101 holds the Large Tang 100 Series T-Stakes, BH-101 Blow horn Stake, T-101 Holder and the E-101 Holder. The H-101 should be bolted to a sturdy workbench or a stump. The H-101 is supplied with 10mm socket head bolts and nuts.



VH-1

The VH-1 Stake Holder is used to hold the Small Tang Fretz Stakes in a vise. The small size of this holder makes it useful in small vises. The VH-1 Holder is not recommended for use with the M-100 Series Stakes.



VH-1L The VH-1L Stake Holder is used to hold all the Small Tang Fretz Stakes in a vise. The tapered tang prevents the VH-1L from rotating in large vise jaws. This is a good choice for use with the M-100 Series Stakes.



VH-101

The VH-101 holds the Large Tang 100 Series T-Stakes, BH-101 Blow Horn Stake, T-101 Holder and the E-101 Holder. The VH-101 performs the same function as the H-101 but is used with a heavy machinist vise. Different Stakes and Holders can easily be removed with a ball peen hammer.



E-101

The E-101 fits a Large Tang Stake Holder, either the H-101 or the VH-101 Holder. The E-101 extends the reach of the M-100 Series Mushroom Stakes by about 80 mm. This allows the mushroom stakes to reach deep into a project as when a bottom of a cylinder needs to be planished.



E-100 Extractor Wedge

The E-100 is used to remove a mushroom stake from the E-101 Holder. Just drive the wedge into the oval hole and the taper on the wedge will force the inserted mushroom stake out.



T-101

The T-101 Stake holder has a large Tang which fits into the H-101 or the VH-101. The top holes on the T-101 hold the Small Tang Stakes. The T-101 allows a hollow project to slide over a mushroom stake with an 80 mm reach. The raised end of the T-101 makes it possible to form domed areas on small cylinders and sculptural shapes. The ability to rotate the T-101 makes it the first choice when using the M-100 Series Fluting Stakes.

FRETZ PORTABLE WORKBENCH



The Fretz Portable Workbench is a foldable workstation that can easily be moved from location to location. The top is solid ash hardwood with folding steel legs. The H-1 Holder or the H-1L Holder can be mounted to the predrilled holes on the front side of the bench.

Many projects demand two stakes and having two holders saves time in not having to change stakes repeatedly.

Set up is a simple matter of securing the legs to the workbench with four lag bolts. Pilot holes on the bottom surface have been predrilled. A 10 mm long socket with a socket wrench is the easiest way to secure the bolts.

The workbench top is 43 3/4 inches by 11 1/2 inches by 1 1/2 inches thick. The workbench top weighs 18.4 pounds with shipping box. The steel folding legs weigh 18.2 pounds with shipping box. The Workbench is 26 inches high when set up and is adjustable upwards in four inch increments. The 26 inch height is perfect for most adults when sitting.

FRETZ PORTABLE TOOL RACK



The Fretz Portable Tool Rack is a foldable tool rack for Fretz Hammers and Stakes. The top is solid hardwood ash and makes the perfect companion to the Fretz Portable Workbench. The stakes and hammers are easy to see and select. The length of the tool rack will accommodate a large Fretz tool collection.

The workbench top is 43 1/4 inches by 9 3/4 inches by 1 1/2 inches thick. The ash Fretz Portable Tool Rack top weighs 13.1 pounds with shipping box. The steel folding legs weigh 18.2 pounds with shipping box. The Fretz Portable Tool Rack is 26 inches high when set up and is adjustable upwards in four inch increments. The height can be matched to the Fretz Portable Workbench.

The Ash Wood Top is packaged in a cardboard box with three Styrofoam sleeves. The steel legs are packaged in a cardboard box. Lag bolts and assembly instructions are included.

M-100 SERIES STAKES



M-101 High Dome Mushroom Stake / 35 mm Round



M-102 Low Dome Mushroom Stake / 35 mm Round



M-103 Flat Mushroom Stake / 35 mm Round



M-104 Large Concave Stake / 57 mm Long



M-105 Medium Concave Stake / 46 mm Long



M-106 Small Concave Stake / 32 mm Long



M-106A Small Concave Closing Stake / 32 mm Long



M-107 Extra Concave Cone Stake / 52 mm Long



M-108 Sloped Large Concave Stake / 52 mm Long



M-109 Sloped Concave Cone Stake / 52 mm Long



M-110 Sloped Concave Cone Stake / 52 mm Long



M-111 40 mm Convex Cuff Stake / 36 mm Long



M-112 30 mm Convex Cuff Stake / 36 mm Long



M-113 20 mm Convex Cuff Stake / 36 mm Long



M-113A 20 mm Starting Fluting Stake / 36 mm Long



M-113B 20 mm Finishing
Fluting Stake / 36 mm Long



M-114 10 mm Convex
Cuff Stake / 36 mm Long



M-115 Low Compound
Curve Stake / 52 mm Long



M-116 High Compound
Curve Stake / 52 mm Long



M-117 Flat Cuff
Stake / 52 mm Long



M-118 Small Flat Cuff
Stake / 52 mm Long



M-119 Large Spoon
Stake / 52 mm Long



M-120 Medium Spoon
Stake / 43 mm Long



M-121 Small Spoon
Stake / 26 mm Long



M-122 Shallow Concave
Stake / 59 mm Long



M-123 Minimal Concave
Stake / 59 mm Long



M-124 Large Collar
Mushroom Stake / 44 mm



M-125 Large Concave Collar
Mushroom Stake / 46 mm Long



M-126 Medium Collar
Mushroom Stake / 49 mm Long



M-127 Small Collar Mushroom
Stake / 38 mm Long



M-128 Wide Flat Doming Bracelet Stake / 1 7/16" or 36 mm



M-129 Narrow Flat Stake with Rolled Edge / 36 mm



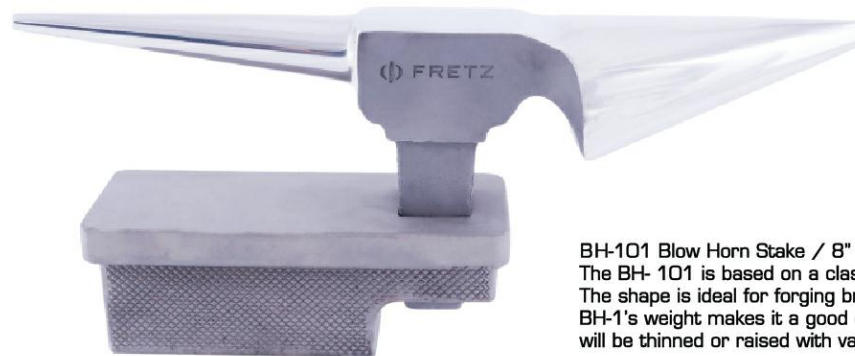
M-130 Straight Fluting Stake / 2" or 50 mm



M-132A 50 mm Beginning Low Dome Fluting Stake. The first stake to use for fluting low domed bracelets or cylinders. Use the M-110 Stake for initial forming. This stake prevents misplaced sharp interior marks from forming during the early fluting process.



M-132B 50 mm Finishing Low Dome Fluting Stake. The final stake to use for fluting low domed bracelets or cylinders. Use the M-132B to sharpen the flutes formed with the M-132A Stake.



BH-101 Blow Horn Stake / 8" or 223 mm
The BH- 101 is based on a classic tinsmithing stake. The shape is ideal for forging bracelets and cuffs. The BH-1's weight makes it a good choice when thick stock will be thinned or raised with various hammers.

MICHAEL GOOD STAKES



G-1 16mm/120 Degree Hook Stake

The G-1 and all Michael Good Stakes have a single curve for anticlastic forming. The single curve makes it possible for the jeweler to form complex forms without binding with the stake. The open form of this stake is often the first stake to begin with.



G-2 16mm/90 Degree Hook Stake

The G-2 is a steeper curve for deeper anticlastic forms.



G-3 12mm/90 Degree Hook Stake

The G-3 is scaled for smaller work or as a "progressive stake" to begin closing larger forms.



GH-1 Michael Good Holder for 16 mm Bar Stakes

The GH-1 holds the Michael Good Anticlastic Stakes in a vise. The Michael Good Stakes are held firmly with the set screw in the GH-1 Holder. The tapered tang keeps the holder from slipping forward in the vise.



G-4 8mm/90 Degree Hook Stake

The G-4 is scaled for smaller or tighter anticlastic curves.



G-5 6mm/90 Degree Hook Stake

The G-5 is for work that continues to scale down in size.



G-6 4mm/90 Degree Hook Stake

The G-6 makes it possible to form small anticlastic curves as well as close very small spiculums.

SET 101 100 SERIES MASTER SET



The metalsmith has the option of two mounting systems, the H-101 and the VH-101, for the Complete 100 Series Fretz Tools.

The Tool Holders

T-101 Double Ended Holder

The T-101 holds all the M-100 Series Mushroom Stakes so they may be used with projects requiring a deeper reach than is possible with the H-1L holder. This makes it possible to form very large jewelry and small hollowware with these tools.

E-101 and E-100 Extender holder and Wedge Set

The E-101 is an extension holder that fits in either the H-101 or VB-101 Holders.

This extra length makes it possible to mount all the M-100 Series Mushroom Stakes so they can be used in a raised position. An example would be forming the bottom on a small bottle.

The E-100 is a wedge to help remove the M-100 Series Stakes from the E-101 Holder.

The "T" Stakes

BH-1 Blow Horn Stake / 6" or 223 mm

R-101 Raising Stake 180 mm Long

R-102 Tapered Raising Stake 180 mm Long

The R-101 and R-102 are used to raise flat metal into concave and convex shapes.

They are also useful in forging thick metal stock.

The BH-1 is a classic stake for forming and forging large and small circles.

The Mushroom Stakes

M-101 High Dome Mushroom Stake / 35 mm Round

M-102 Low Dome Mushroom Stake / 35 mm Round

M-103 Flat Mushroom Stake / 35 mm Round

M-104 Large Concave Stake / 57 mm Long

M-105 Medium Concave Stake / 46 mm Long

M-106 Small Concave Stake / 32 mm Long

M-106A Anticlastic Closing Stake

M-107 Extra Small Concave Stake / 52 mm Long

M-108 Sloped Large Cone Stake / 52 mm Long

M-109 Sloped Concave Cone Stake / 52 mm Long

M-110 Sloped Convex Cone Stake / 52 mm Long

M-111 40 mm Convex Cuff Stake / 36 mm Long

M-112 30 mm Convex Cuff Stake / 36 mm Long

M-113 20mm Convex Cuff Stake / 36 mm Long

M-113A Starting Fluting Stake

M-113B Finishing Fluting Stake

M-114 10mm Convex Cuff Stake / 36 mm Long

M-115 Low Compound Curve Stake / 52 mm Long

M-116 High Compound Curve Stake / 52 mm Long

M-117 Flat Cuff Stake / 52mm Long

M-118 Small Flat Cuff Stake / 52mm Long

M-119 Large Spoon

M-120 Medium Spoon

M-121 Small Spoon

M-122 Shallow Concave Stake

M-123 Minimal Concave Stake

M-124 Large Collar Mushroom Stake / 44 mm

M-125 Large Concave Collar Mushroom Stake / 46 mm Long

M-126 Medium Collar Mushroom Stake / 49 mm Long

M-127 Small Collar Mushroom Stake / 38 mm Long

M-128 Wide flat Darning Bracelet stake / 1 7/16" or 36 mm

M-129 Narrow flat Stake with Rolled Edge / 36 mm

M-130 Straight Fluting Stake / 2" or 50 mm

M-132A Starting Low Dome Fluting Stake

M-132B Finishing Low Dome Fluting Stake

The M-100 Stakes are used for forming metal while held in the T-101 or H-1L Holders.

The various shapes lend themselves for forming and texturing flat, concave, convex and compound curves.

S-3 Wooden Stake Rack 12" x 5" (3 pcs)

SET 103 JEWELERS BRACELET 100 SERIES SET



This set is useful for making flat, concave and convex cuff and bangle bracelets. The reach of the H-1L Holder is longer than the original H-1 Holder and is needed for the M- 100 Series Stakes.
The H-1L is a good choice for jewelers where the extra reach of the T-101 is not needed.

SET 103 Includes:

H-1L	Long Holder with Hardware
M-104	Large Concave Stake/57 mm Long
M-105	Medium Concave Stake /46 mm Long
M-106	Small Concave Stake /32 mm Long
M-107	Extra Small Concave Stake /52 mm Long
M-122	Shallow Concave Stake
M-123	Minimal Concave Stake

M-104 thru M-107, M-122 and M-123 Mushroom Stakes are useful for forming concave shapes and diameters of two inches and up. These stakes are for sinking round sheet metal tubes and flat sheet

M-111	40 mm Convex Cuff Stake /36 mm Long
M-112	30 mm Convex Cuff Stake /36 mm Long
M-113	20mm Convex Cuff Stake /36 mm Long
M-114	10mm Convex Cuff Stake /36 mm Long

The **M-111 thru M-114 Mushroom Stakes** are useful for forming various convex shapes with round diameters of two inches and up. The raising process of compressing the edge of a cylinder is the main function though they are very useful for doming various shapes as well.

M-117	Flat Cuff Stake /52mm Long
M-118	Small Flat Cuff Stake/52mm Long

The **M-117 and M-118 Flat Cuff Mushroom Stakes** are used to form and texture round flat bracelets. The stakes can be used to form concave cylinder shapes while tilting and rotating the shapes as they are being hammered.
S-3 Double Wooden Stake Rack 12" x 5"

SET 104 SPOON FORMING SET



SET 104 Includes:

M-119	Large Spoon
M-121	Small Spoon
M-120	Medium Spoon

EXTENDED HOLDER AND WEDGE SET



SET Includes:

E-100	Extender Wedge
E-101	Extender Holder

BEZEL STAKES

The Bezel Stakes have six different surface curves so different shaped bezels can be formed easily.



B-1 Bezel Sharp Edge
Flat Stake
80 x 11.5mm



B-2 Bezel Sharp Edge
Low Dome Stake
80 x 11.5mm



B-3 Bezel Sharp Edge
High Dome Stake
80 x 11.5mm



B-4 Bezel Sharp Edge
Trillion Stake
80 x 11.5mm



B-5 Bezel Rolled
Edge Flat Stake
80 x 11.5mm



B-6 Bezel Rolled
Edge Dome Stake
80 x 11.5mm

FORMING STAKES

The F- Series Stakes are miniature silversmithing stakes for jewelers.



F-1 Beak Stake
82 x 13.25 mm



F-2 Double Convex Stake
75 x 14.5 mm



F-3 Dornig Stake
78 x 12.5 mm



F-4 Cone Stake
89 x 15 mm



F-5 Hoop Forming Stake
80 x 17.5 and 13.5 mm



F-6 Shell Stake
97 x 15 mm



F-7 Thin Shell Stake
94 x 14 mm



F-8 Horn Stake
73 x 14 mm



PLANISHING ON THE F-2 STAKE



F-9 Convex/Concave Stake
77 x 13 mm

HOLLOW RING STAKES

Hollow Ring Stakes are for forming rings from sheet metal blanks into interesting designs.



R-1 Standard Raising Stake
83 x 11.5mm



R-2 Tapered Rounded Raising Stake
83 x 11.5mm



R-3 Rounded Raising Stake
83 x 11.5mm

THE PROGRESSIVE STAKES

The Progressive Stakes are used after a piece is formed with the F-2 Doming Stake. The F-2A is the first stake to follow in the progression to form concave flutes. This stake establishes concave curves without making the flutes sharp. The next two stakes, F-2B and F-2C bring the high points into sharper relief.



F-2A Convex Fluting Rolled Edge
75 x 14.5 mm



F-2B Convex Fluting Medium/Sharp
75 x 14.5 mm



F-2C Convex Fluting Sharp
75 x 14.5 mm

MUSHROOM STAKES

The Mushroom Stakes have different curves and sizes to form sheet metal into interesting shapes.



M-1 Mushroom Flat Stake (14mm)



M-2 Mushroom Low Dome Stake (14mm)



M-3 Mushroom High Dome Stake (14mm)



M-4 Mushroom Flat Stake (10mm)



M-5 Mushroom Low Dome Stake (10mm)



M-6 Mushroom High Dome Stake (10mm)



M-7 Mushroom Flat Stake (18mm)



M-8 Mushroom Low Dome Stake (18mm)



M-9 Mushroom High Dome (18mm)

BENCH ANVILS



Bench Anvils are large mushroom stakes for the jeweler's bench. You can form or texture flat or curved jewelry and metal on these stakes. The wooden bases dampen the noise and the rubber feet keep the anvil from slipping.

H-2 HOLDER INSERT STAKES

All the Fretz Stakes that fit the H-2 Holder have 5mm tangs. The Insert Stakes are held with two set screws and make forming very small parts with various hammers easy.



A-1 3mm Micro-Mushroom Stake
A-2 4mm Micro-Mushroom Stake
A-3 5mm Micro-Mushroom Stake



AT-1 Tapered Micro
Mandrel 3 1/4" Long
2mm-4mm and 3mm-5mm

AT-2 Gradual Tapered Micro
Mandrel 3 1/4" Long
3mm-4mm and 4mm-5mm

AT-3 Straight Micro Mandrel
3 1/4" Long 5mm and 4mm

AT-4 Straight 5mm Micro
Mandrel 3 1/4"



I-1 4.7mm Round
High Dome Insert



I-2 5.7mm Round
High Dome Insert



I-3 6.5mm Round
High Dome Insert



I-4 8.5mm Round
High Dome Insert



I-5 10.5mm Round
High Dome Insert



I-6 12mm Low Dome
Mushroom Insert



I-7 14.6mm Low Dome
Mushroom Insert



I-8 16.7mm Low Dome
Mushroom Insert



I-9 37 mm Tall
3x10.5mm Taper Insert



I-10 35 mm Tall
4 x 13.8 mm Taper Insert



I-11 21 mm Tall
3x 19 mm Taper Insert



I-12 17.5 mm Tall
4mm x 29.5 Concave Taper



I-13 32 mm Tall
4mm x 24 mm Concave Taper



I-14 6 mm Hook

H-2 INSERT WHEELS

The Insert Wheels form thin to thick convex shape earrings, rings and other curved forms.



I-15 10 mm x 3mm Wheel on 5 mm Shank



I-16 10 mm x 5 mm Wheel on 5 mm Shank



I-17 13 mm x 3 mm Wheel on 5 mm Shank



I-18 13 mm x 5 mm Wheel on 5 mm Shank



I-19 16 mm x 5 mm Wheel on 5 mm Shank



I-20 16 mm x 8 mm Wheel on 5 mm Shank



I-21 19 mm x 5 mm Wheel on 5 mm Shank



I-22 19 mm x 8 mm Wheel on 5 mm Shank

MA MUSHROOM SERIES STAKES

The MA-Series are round mushroom stakes of about 70 mm diameter in 420 hardened stainless steel.

The tapered tangs fit in the Fretz H-101 Bench Holder or Fretz VH-101 Vise Holder.

The design of each of the four stakes makes them very useful for forming or forging non-ferrous metal projects or jewelry. They are rugged tools that can be used with either light or very heavy hammers.



MA-1 Large Mushroom Anvil -Flat



MA-2 Large Mushroom Anvil -Low Dome



MA-3 Large Mushroom Anvil -Medium Dome



MA-4 Large Mushroom Anvil -High Dome

MA MUSHROOM ANVIL SET

MA-1 is the flat version of the MA-Series. It can be used as a flat jewelry anvil or also as a stake to form the bottom of hollowware. This is a very useful first stake for forging heavy stock metal wire or ingots.

MA-2 is a low domed round mushroom stake. The low dome makes an excellent curve for forming large pendants and for small projects to give the shape dimensional stability. Slightly domed shapes look less static than flat ones with fewer tendencies to bend in use.

MA-3 is a more domed round stake than MA-2. This stake can be used to form shapes when more of a domed surface is required. The MA-3 Mushroom Stake can be used as a mallet to dome metal. Lay sheet metal on a sand bag and strike it with the domed surface, while holding the tang, and the metal will become cupped in a few blows. The metal can then be forged or textured with various hammers by replacing it in its holder.

MA-4 is a half round domed mushroom stake. This shape is very useful for dramatic curves on large surfaces. On small surfaces the half round shape is needed to make the piece have a noticeable curve. Small round or freeform shapes can be raised on the surface with a nylon or steel-raising hammer. This technique is more efficient than angle raising metal.



STAKE SETS



Set #1 Bezel Forming Set

The Fretz Stake Set #1 is ideal for making bezels when bezel mandrels do not fit the stone. The six stakes all have different curves and edges that allow the craftsperson to match the stone's curve with that of the miniature stake to make forming easy. The sharp corners of triangles, rectangles and other bezel shapes can be hammered in without mitering. All the stakes fit into an H-1 holder so both hands are free to hammer and hold the project.

The H-1 Holder may be mounted on a workbench, or on the VB-1 Wooden Block that is then placed in a vise.

Set 1

Bezel Forming Set

Set Includes:

- H-1 Stake Holder With Hardware
- B-1 Bezel Sharp Edge Flat Stake
- B-2 Bezel Sharp Edge Low Dome Stake
- B-3 Bezel Sharp Edge High Dome Stake
- B-4 Bezel Sharp Edge Trillion Stake
- B-5 Bezel Rolled Edge Flat Stake
- B-6 Bezel Rolled Edge Dome Stake
- S-1 Wooden Stake Rack 8 3/4"x5"
- VB-1 Wooden Vise Block and Hardware



Set#2 Deluxe Bezel Forming Set

The Fretz Stake Set #2 is for bezel making with the same stakes as Set#1 with the added benefit of having a larger T-Stake (R-1) for forming large bezels. The set also includes three 14mm mushroom stakes: flat, low dome, and half round stakes for general forming.

The H-1 Holder may be mounted on a workbench or on the VB-1 Wooden Block that is then placed in a vise.

Set - 2

Deluxe Bezel Forming

Set Includes:

- H-1 Stake Holder With Hardware
- B-1 Bezel Sharp Edge Flat Stake
- B-2 Bezel Sharp Edge Low Dome Stake
- B-3 Bezel Sharp Edge High Dome Stake
- B-4 Bezel Sharp Edge Trillion Stake
- B-5 Bezel Rolled Edge Flat Stake
- B-6 Bezel Rolled Edge Dome Stake
- M-1 Mushroom Flat Stake (14mm)
- M-2 Mushroom Low Dome Stake (14mm)
- M-3 Mushroom High Dome Stake (14mm)
- R-1 Standard Raising Stake
- S-1 Wooden Stake Rack
- VB-1 Wooden Vise Block and Hardware



Set #3 H-2 Micro Stake Set

The Fretz Set #3 is a group of very small mandrels that fit into the H-2 Holder. The various mandrels make it possible to form very tight curves on bezels and other small shapes where the Bezel Stakes are not curved. The Micro Mushroom Stakes allow the bezels to be domed if desired. Two H-1 Holders are useful when forming a bezel with more than one stake.

Set - 3 H-2 Micro Stake Set

Set Includes:

- H-1 Stake Holder and Hardware
- H-2 Micro Stake and Mandrel Holder
- A-1 thru A-3 Micro Mushroom Stakes as a Set
- AT-1, 2, 3 and 4 Micro Mandrels as a Set
- S-2 Wooden Micro Stake Holder for H-2
- VB-1 Vise Block with Hardware



Set # 4 Bezel and Micro Stake Set Complete

The Fretz Set #4 is a combination of Set #1 and #3 without the Mushroom Stakes. This is the ideal Set if bezel making is the main focus of your work. At a later date another H-1 Holder may be added as multiple stakes are routinely used on one project.

Set-4 Bezel and Micro Stake Set Complete

Set Includes:

- H-1 Stake Holder and Hardware
- H-2 Micro Stake and Mandrel Holder
- A-1 thru A-3 micro mushroom stakes as a Set
- AT-1, 2, 3 and 4 micro mandrels as a Set
- B-1 Bezel Sharp Edge Flat Stake
- B-2 Bezel Sharp Edge Low Dome Stake
- B-3 Bezel Sharp Edge High Dome Stake
- B-4 Bezel Sharp Edge Trillion Stake
- B-5 Bezel Rolled Edge Flat Stake
- B-6 Bezel Rolled Edge Dome Stake
- S-1 Wooden Stake Rack 8 3/4"x5"
- S-2 Wooden Micro Stake Holder for H-2
- VB-1 Vise Block with Hardware



Set #5 Forming Stake Set

The Fretz Stake Set #5 is a group of stakes used for metal forming. They are similar to silversmithing stakes, but on a jewelry scale, and they fit into the H-1 holder. There are seven stakes for working sheet metal into convex and concave shapes. The starting sheet metal blank can be worked with one or more stakes into infinite possibilities. The H-1 Holder can be mounted on a workbench or on the VB-1 Wooden Block that is then placed in a vise.

Set - 5

Forming Stake Set

Set Includes:

- H-1 Stake Holder with Hardware
- F-1 Beak Stake
- F-2 Double Convex Stake
- F-3 Doming Stake
- F-6 Shell Stake
- F-7 Thin Shell Stake
- F-8 Horn Stake
- F-9 Convex/Concave Stake
- S-1 Wooden Stake Rack 83/4"x5"
- VB-1 Wooden Vise Block with Hardware



Set #6 Mushroom Stake Set

The Fretz Stake Set #6 has nine round Mushroom Stakes (M-1 thru M-9) of three different sizes. The shapes are flat, low dome and half round in 10mm, 14mm and 18 mm sizes. The Fretz mushroom Stakes also fit the H-1 Holder and can be used to dome sheet metal into different curves. The H-1 Holder may be mounted on a workbench or on the VB-1 Wooden Block that is then placed in a vise.

Set - 6

Mushroom Stake Kit

Set Includes:

- H-1 Stake Holder with Hardware
- M-1 Mushroom Flat Stake (14mm)
- M-2 Mushroom Low Dome Stake (14mm)
- M-3 Mushroom High Dome Stake (14mm)
- M-4 Mushroom Flat Rolled Edge Stake (10mm)
- M-5 Mushroom Low Dome Stake (10mm)
- M-6 Mushroom High Dome Stake (10mm)
- M-7 Mushroom Flat Rolled Edge Stake (18mm)
- M-8 Mushroom Low Dome Stake (18mm)
- M-9 Mushroom High Dome (18mm)
- S-1 Wooden Stake Rack 83/4"x5"
- VB-1 Wooden Vise Block with Hardware



Set #7 Hollow Ring Stake Set

The Fretz Stake Set #7 has three different T-Stakes (R-1, R-2 and R-3) for forming a ring blank into dimensional shapes. There is also a Forming Stake (F-8) for doming the ring shanks. All of these Fretz Stakes fit into the H-1 Holder. The H-1 Holder may be mounted on a workbench or on the VB-1 Wooden Block that is then placed in a vise.

Set - 7

Hollow Ring Stake Kit

Set includes:

- H-1 Stake Holder with Hardware
- R-1 Standard Raising Stake
- R-2 Tapered Rounded Raising Stake
- R-3 Rounded Raising Stake
- F-8 Horn Stake
- VB-1 Wooden Vise Block with Hardware



Set #8 Master Stake Set

The Master Stake Set gives the craftsperson the ability to use all the basic tools of the Fretz Miniature Stakes. The Master Set also comes with one H - 1 and one H - 1L Stake holders. This set has all the Fretz Miniature Stakes and Holders with the exceptions of the F-4 Cone Stake and the F-5 Hoop Stake, I-Series Insert Stakes and Wheels. The B-Stakes make it possible to form difficult bezels easy. The H-2 Holder adds the use of small mandrels and insert stakes. The M-Stakes or mushroom stakes make it easy to dome flat sheet metal shapes into complex forms. The R-Stakes are used to make hollow rings with stakes that fit a variety of designs. For the master craftsperson this is the set to consider. All of the Fretz Stakes fit into the H-1 or H-1L Holders. The Holders may be mounted on a workbench or on the VB-1 Wooden Block that is then placed in a vise.

Set - 8

Master Stake Set

Set Includes:

- H-1 and H-1L Holders
- B-1 Bezel Sharp Edge Flat Stake
- B-2 Bezel Sharp Edge Low Dome Stake
- B-3 Bezel Sharp Edge High Dome Stake
- B-4 Bezel Sharp Edge Trillion Stake
- B-5 Bezel Rolled Edge Flat Stake
- B-6 Bezel Rolled Edge Dome Stake
- M-1 Mushroom Flat Stake (14mm)
- M-2 Mushroom Low Dome Stake (14mm)
- M-3 Mushroom High Dome Stake (14mm)
- M-4 Mushroom Flat Rolled Edge Stake (10mm)
- M-5 Mushroom Low Dome Stake (10mm)
- M-6 Mushroom High Dome Stake (10mm)
- M-7 Mushroom Flat Rolled Edge Stake (18mm)
- M-8 Mushroom Low Dome Stake (18mm)

- M-9 Mushroom High Dome (18mm)
- R-1 Standard Raising Stake
- R-2 Tapered Rounded Raising Stake
- R-3 Rounded Raising Stake
- F-1 Beak Stake
- F-2 Double Convex Stake
- F-3 Doming Stake
- F-6 Shell Stake
- F-7 Thin Shell Stake
- F-8 Horn Stake
- F-9 Convex/Concave Stake
- H-2 5mm Accessory Tool Holder
- Accessories for H-2 Tool Holder:
- A-1 thru 3 Micro Stake Set
- AT-1 thru At-4 Mandrel Set
- S-2 Wooden Micro Stake Holder for H-2
- S-3 Wooden Stake Rack 12"x5"
- VB-1 Wooden Vise Block with Hardware



Set #9 PROGRESSIVE STAKE SET

The Fretz Set #9 is a group of three stakes that are used after a piece has been formed with the F-2 Doming Stake. The F-2A, F-2B and the F-2C are used in "progression", one after the other to form concave flutes.

Set - 9 Includes:

- F-2A Convex Fluting Stake/Lining
- F-2B Convex Fluting Stake/Sharp
- F-2C Convex Fluting Stake/Extreme Sharp



Set #10 H-2 INSERT STAKES

The Fretz #10 Set is a group of very small stakes that fit into the H-2 Holder. It is assumed that you already have the H-1 Holder and H-2 Holder. The mushroom stakes can be placed in the H-2' s top hole to be used as mushroom stakes or in the side holes are to be used as small forming stakes.

Set # 10 Includes:

- I-1 4.7 mm Round High Dome Insert
- I-2 5.7 mm Round High Dome Insert
- I-3 6.5 mm Round High Dome Insert
- I-4 8.5 mm Round High Dome Insert
- I-5 10.5 mm Round High Dome Insert
- I-6 12 mm Low Dome Mushroom Insert
- I-7 14.6 Low Dome Mushroom Insert
- I-8 16.7 Low Dome Mushroom Insert
- I-9 37 mm Tall x 3x10.5 mm Taper Insert
- I-10 35 mm Tall x 4 x 13.8 mm Taper Insert
- I-11 21 mm Tall x 3x 19 mm Taper Insert
- I-12 17.5 mm Tall x 4mm x29.5 Concave Taper
- I-13 32 mm Tall x 4mm to 24 mm Concave Taper
- I-14 6 mm Hook



Set #11 COMPLETE INSERT SET

The Fretz Stake Set #11 is when you want a complete jewelry forming stake set for very small work. It comes with almost all the parts for the H-2 Holder Stakes and the H-1 to mount on a workbench or in a vise. The Wheel Insert Stakes in Set #12 are not part of this set.

Set # 11 Includes:

- H-1 Stake Holder and Hardware
- H-2 5mm Accessory Tool Holder
- A-1 thru A-3 as a Set/ Miniature Stakes
- AT-1,2,3 and 4 as a Set/Miniature Mandrels
- S-2 Wooden Micro Stake Holder for H-2
- VB-1 Wooden Vise Block and Hardware (I-Series Set- Below)
- I-1 4.7 mm Round High Dome Insert
- I-2 5.7 mm Round High Dome Insert
- I-3 6.5 mm Round High Dome Insert
- I-4 8.5 mm Round High Dome Insert
- I-5 10.5 mm Round High Dome Insert
- I-6 12 mm Low Dome Mushroom Insert
- I-7 14.6 Low Dome Mushroom Insert

- I-8 16.7 Low Dome Mushroom Insert
- I-9 37 mm Tall x 3x10.5 mm Taper Insert
- I-10 35 mm Tall x 4 x 13.8 mm Taper Insert
- I-11 21 mm Tall x 3x 19 mm Taper Insert
- I-12 17.5 mm Tall x 4mm x29.5 Concave Taper
- I-13 32 mm Tall x 4mm to 24 mm Concave Taper
- I-14 6 mm Hook



Set# 12 MINI WHEEL STAKE SET

The Fretz Stake Set #12 is a special group of Insert Stakes for the H-2 Holder. The wide selection of wheel sizes make it easy to dome flat rings or short lengths of tubing into domed shapes.

Set # 12 Includes:

- I-15 10 mm x 3 mm Wheel on 5 mm Shank
- I-16 10 mm x 5 mm Wheel on 5 mm Shank
- I-17 13 mm x 3 mm Wheel on 5 mm Shank
- I-18 13 mm x 5 mm Wheel on 5 mm Shank
- I-19 16 mm x 5 mm Wheel on 5 mm Shank
- I-20 16 mm x 8 mm Wheel on 5 mm Shank
- I-21 19 mm x 5 mm Wheel on 5 mm Shank
- I-22 19 mm x 8 mm Wheel on 5 mm Shank
- S-2 Wooden Micro Stake Holder for H-2 Holder

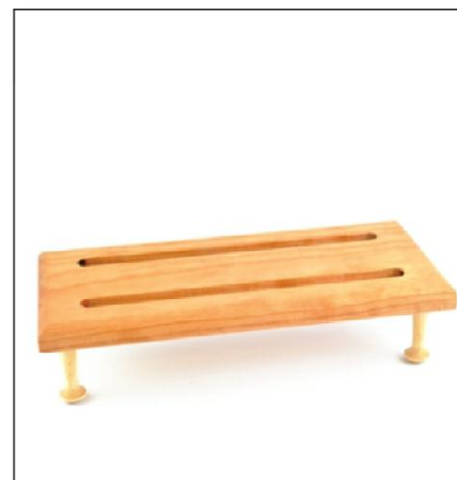
WOODEN STANDS AND HOLDERS



S-1 Wooden Stake Rack 8 3/4"x5"



S-2 Wooden Micro Stake Holder 6"x3"x1" for H-2



S-3 Wooden Stake Rack 12"x5"



VB-1 Wooden Vise Block 3"x2"x1 1/2"

SET DVD # 1 AND FRETZ TOOLS



SET DVD # 1 Includes:

DVD # 1

BASIC HAMMERING AND FORMING JEWELRY CUFF BRACELETS.

Fretz Tools.

Fretz Stakes:

- H-1 Stake Holder for Work Bench Mounting
- F-2 Double Convex Stake
- F-2A Convex Fluting Stake/Lining
- F-2B Convex Fluting Stake/Sharp
- F-2C Convex Fluting Stake/Extreme Sharp
- F-6 Shell Stake
- F-9 Convex/Concave Stake
- S-1 Wooden Stake Rack 83/4"x5" (Not shown)

Fretz Hammers:

- HMR-1 Planishing Hammer
- HMR-2 Wide Raising Hammer
- HMR-3 Narrow Raising Hammer
- HMR-7 Double Ended Insert Hammer
- HMR-9 Rounded Wide Raising Hammer
- HMR-8 Rounded Narrow Raising Hammer

SET DVD # 2 AND FRETZ TOOLS



SET DVD # 2 Includes:

DVD #2

HAMMERING AND FORMING JEWELRY PENDANTS

Fretz Tools

Fretz Stakes :

- H-1 Stake Holder for Work Bench Mounting
- M-8 Mushroom Low Dome Stake (18mm)
- F-7 Thin Shell Stake
- I-8 16.7 Low Dome Mushroom Insert
- I-14 6 mm Hook
- H-2 5 mm Accessory Tool Holder
- S-1 Wooden Stake Rack 83/4"x5" (Not shown)

Fretz Hammers:

- HMR-1 Planishing Hammer
- HMR-3 Narrow Raising Hammer
- HMR-4 Large Embossing Hammer
- HMR-5 Small Embossing Hammer
- HMR-7 Double Ended Insert Hammer

SET DVD # 3 AND FRETZ TOOLS



SET DVD # 3 Includes :

DVD #3

EXPERT BEZEL FORMING

Fretz Stakes :

- H-1 Stake Holder for Work Bench Mounting
- H-2 5mm Accessory Tool Holder
- B-1 Bezel Sharp Edge Flat Stake
- B-3 Bezel Sharp Edge High Dome Stake
- B-4 Bezel Sharp Edge Trillion Stake
- B-6 Bezel Rolled Edge Dome Stake
- AT-1, 2, 3 and 4 as a Set/Miniature Mandrels
- R-1 Raising Stake
- R-2 Tapered Rounded Raising Stake
- R-3 Rounded Raising Stake
- S-1 Wooden Stake Rack 8 3/4"x5" (Not shown)

Fretz Hammers:

- HMR-1 Planishing Hammer
- HMR-3 Narrow Raising Hammer
- HMR-7 Double Ended Insert Hammer

SET DVD # 4 AND FRETZ TOOLS



SET DVD # 4 Includes:

DVD #4

FORMING HOLLOW RINGS

Fretz Tools

Fretz Stakes :

- H-1 Stake Holder for Work Bench Mounting
- R-1 Standard Raising Stake
- R-2 Tapered Rounded Raising Stake
- R-3 Rounded Raising Stake
- F-5 Ring/Hoop Doming Stake
- F-6 Shell Stake
- F-7 Thin Shell Stake
- F-8 Horn Stake
- S-1 Wooden Stake Rack 8 3/4"x5" (Not shown)

Minimum Fretz Hammer:

- HMR-1 Planishing Hammer
- HMR-2 Wide Raising Hammer
- HMR-3 Narrow Raising Hammer
- HMR-4 Large Embossing Hammer
- HMR-5 Small Embossing Hammer
- HMR-7 Double Ended Insert Hammer
- HMR-12 Sharp Texturing/Raising Hammer
- HMR-406 Precisionsmith Riveting /Texturing Hammer

SET DVD # 1 , 2 ADD FRETZ TOOLS



SET DVD # 1,2 Includes:

Fretz Stakes :

H-1	Stake Holder for Work Bench Mounting	HMR-5	Small Embossing Hammer
H-2	5mm Accessory Tool Holder	HMR-7	Double Ended Insert Hammer
F-2	Double Convex Stake	HMR-8	Rounded Narrow Raising Hammer
F-2A	Convex Fluting Stake/Lining	HMR-9	Rounded Wide Raising Hammer
F-2B	Convex Fluting Stake/Sharp	DVD1:	Basic Hammering and Forming
F-2C	Convex Fluting Stake/Extreme Sharp	DVD2:	Hammering and Forming Jewelry, Volume 2.
F-6	Shell Stake		
F-7	Thin Shell Stake		
F-9	Convex/ Concave Stake		
M-8	Mushroom Low Dome Stake (18 mm)		
I-14	6 mm Hook		
I-8	16.7 Low Dome Mushroom Insert		
S-1	Wooden Stake Rack 8 3/4"x5" (Not shown)		

Fretz Hammers:

HMR-1	Planishing Hammer
HMR-2	Wide Raising Hammer
HMR-3	Narrow Raising Hammer
HMR-4	Large Embossing hammer

SET DVD # 1, 2, 3, 4 AND FRETZ TOOLS



SET DVD # 1.2. 3 and 4 Includes:

Fretz Stakes:

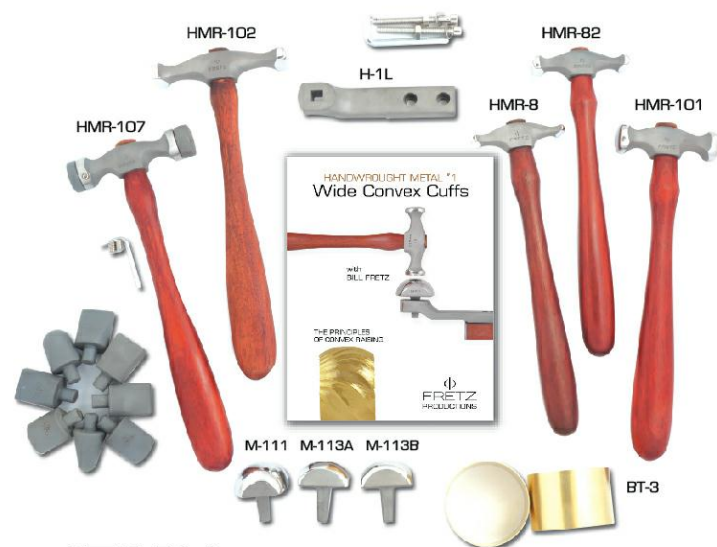
H-1	Stake Holder for Work Bench Mounting
R-1	Standard Rounded Raising Stake
R-3	Rounded Raising Stake
B-3	Bezel Sharp Edge High Dome Stake
B-6	Bezel Rolled Edge Dome Stake
F-2A	Convex Fluting Stake/Lining
F-2C	Convex Fluting Stake/Extreme Sharp
F-6	Shell Stake
F-8	Horn Stake
F-9	Convex/ Concave Stake
I-8	16.7 Low Dome Mushroom Insert
H-2	5mm Accessory Tool Holder
R-2	Tapered Rounded Raising Stake
B-1	Bezel Sharp Edge Flat Stake
B-4	Bezel Sharp Edge Trillion Stake
F-2	Double Convex Stake
F-2B	Convex Fluting Stake/Sharp
F-5	Ring/ Hoop Darning Stake

F-7	Thin Shell Stake
I-14	6 mm Hook
M-8	Mushroom Low Dome Stake (18 mm)
AT-1,2,3 and 4	as a Set/Miniature Mandrels
S-3	Wooden Stake Rack 12"x5" (Not shown)

Fretz Hammers:

HMR-1	Planishing Hammer
HMR-2	Wide Raising Hammer
HMR-3	Narrow Raising Hammer
HMR-4	Large Embossing hammer
HMR-5	Small Embossing Hammer
HMR-7	Double Ended Insert Hammer
HMR-8	Rounded Narrow Raising Hammer
HMR-9	Rounded Wide Raising Hammer
HMR-12	Sharp Texturing/Raising Hammer
HMR-406	Precisionsmith Riveting/Texturing Hammer
DVD1:	Hammering and Forming
DVD2:	Hammering and Forming, Volume 2
DVD3:	Expert Bezel Forming
DVD4:	Forming Hollow Rings

DVDS-1 WIDE CONVEX CUFF DVDS TOOL SET



SET DVDS -1 :

DVD WIDE CONCAVE CUFF

BT-3 Brass Blanks 57.15x38mm (2 1/4x1 1/2")

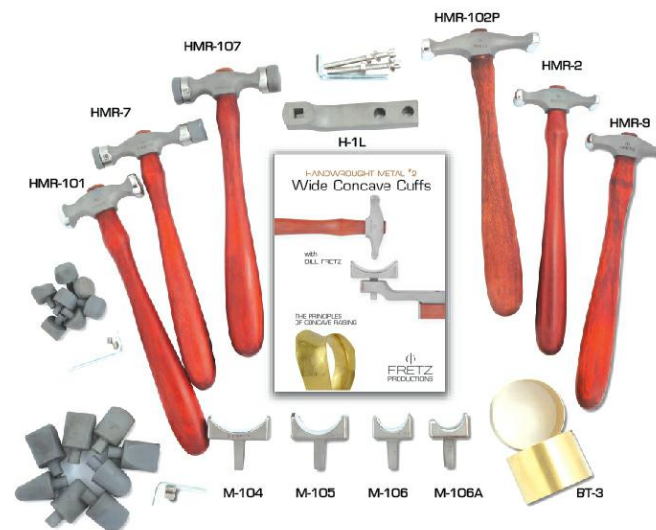
Fretz Hammers :

HMR-2 Wide Raising Hammer
HMR-107 Large Insert Hammer
HMR-8 Rounded Narrow Raising Hammer
HMR-101 Planishing Hammer
HMR-102 Wide Raising Hammer

Fretz Tools :

H-1L Long Holder with Hardware
M-111 40 mm Convex Cuff Stake
M-113A Starting Fluting Stake
M-113B Finishing Fluting Stake

DVDS-2 WIDE CONCAVE CUFF DVDS TOOL SET



SET DVDS - 2:

DVD WIDE CONCAVE CUFF

BT-3 Brass Blanks 57.15x38mm (2 1/4x1 1/2")

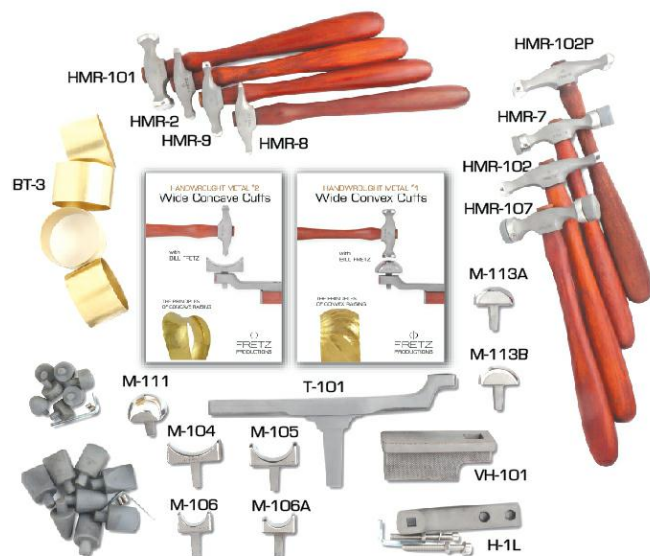
Fretz Hammers :

HMR-2 Wide Raising Hammer
HMR-7 Double Ended Insert Hammer
HMR-9 Rounded Wide Raising Hammer
HMR-101 Planishing Hammer
HMR-102P Wide Raising Hammer
HMR-107 Large Insert Hammer

Fretz Tools :

H-1L Long Holder with Hardware
M-104 Large Concave Stake
M-105 Medium Concave Stake
M-106 Small Concave Stake
M-106A Small Concave Closing Stake

DVDS WIDE CONCAVE AND CONVEX CUFF MASTER DVDS TOOL SET



SET DVDS - 3 Includes :
 DVD WIDE CONVEX CUFF
 DVD WIDE CONCAVE CUFF

BT-3 Brass Blanks 57.15x38mm (2 1/4x1 1/2") 4 Pieces

Fretz Hammers :

HMR-2 Wide Raising Hammer
 HMR-7 Double Ended Insert Hammer
 HMR-8 Rounded Narrow Raising Hammer
 HMR-9 Rounded Wide Raising Hammer
 HMR-101 Planishing Hammer
 HMR-102 Wide Raising Hammer
 HMR-102P Wide Planishing Hammer
 HMR-107 Large Insert Hammer

Fretz Tools :

H-1L Long Holder with Hardware
 M-104 Large Concave Stake
 M-105 Medium Concave Stake
 M-106 Small Concave Stake
 M-106 A Small Concave Closing Stake.
 M-111 40 mm Convex Cuff Stake
 M-113A Starting Fluting Stake
 M-113B Finishing Fluting Stake
 T-101 Tool holder

TEXTURE DVD TOOLS SET



SET HAMMER TEXTURE DVD Includes :
 DVD HAMMER TEXTURE AND FORM

BT-3 Brass Blanks 57.15x38mm (2 1/4x1 1/2")

Fretz Hammers :

HMR-12 Sharp Texturing / Raising Hammer
 HMR-14 Raw Silk Hammer
 HMR-15 Circle Texturing Hammer
 HMR-22 Cross Hatch Hammer
 HMR-406 Precisionsmith Riveting / Texturing Hammer
 HMR-412 Precisionsmith Sharp Texturing Hammer.
 HMR-413 Precisionsmith Petite Sharp Texturing Hammer.

Fretz Tools :

BA-1 Bench Anvil - Flat (71 mm)
 BA-2 Bench Anvil - Low Dome (71 mm)
 BA-3 Bench Anvil - Medium Dome (71 mm)
 BA-4 Bench Anvil - High Dome (71 mm)

MALLEABLE BRASS

BT-1



Dimension : 57.15x16mm (2 1/4x5/8") x1
Thickness: 18 gauge, .040 inches or . 81mm

BT-4



Dimension : 50.8x16mm (2x5/8") x1
Thickness: 18 gauge, .040 inches or . 81mm

BT-7



Dimension 31.75x13mm (1 1/4x1/2") x3
Thickness: 18 gauge, .040 inches or . 81mm

BT-10



Dimension 25.4x10mm (1x3/8") x3
Thickness: 18 gauge, .040 inches or . 81mm

BT-2



Dimension : 57.15x22mm (2 1/4x7/8") x1
Thickness: 18 gauge, .040 inches or . 81mm

BT-5



Dimension : 50.8x22mm (2x7/8") x1
Thickness: 18 gauge, .040 inches or . 81mm

BT-8



Dimension : 31.75x10mm (1 1/4x3/8") x3
Thickness: 18 gauge, .040 inches or . 81mm

BT-11



Dimension : 57.15x88.9mm (2 1/4x3 1/2") x1unit
Thickness: 18 gauge, .040 inches or . 81mm

BT-3



Dimension : 57.15x38mm (2 1/4x1 1/2") x1
Thickness: 18 gauge, .040 inches or . 81mm

BT-6



Dimension : 50.8x38mm (2x1 1/2") x1
Thickness: 18 gauge, .040 inches or . 81mm

BT-9



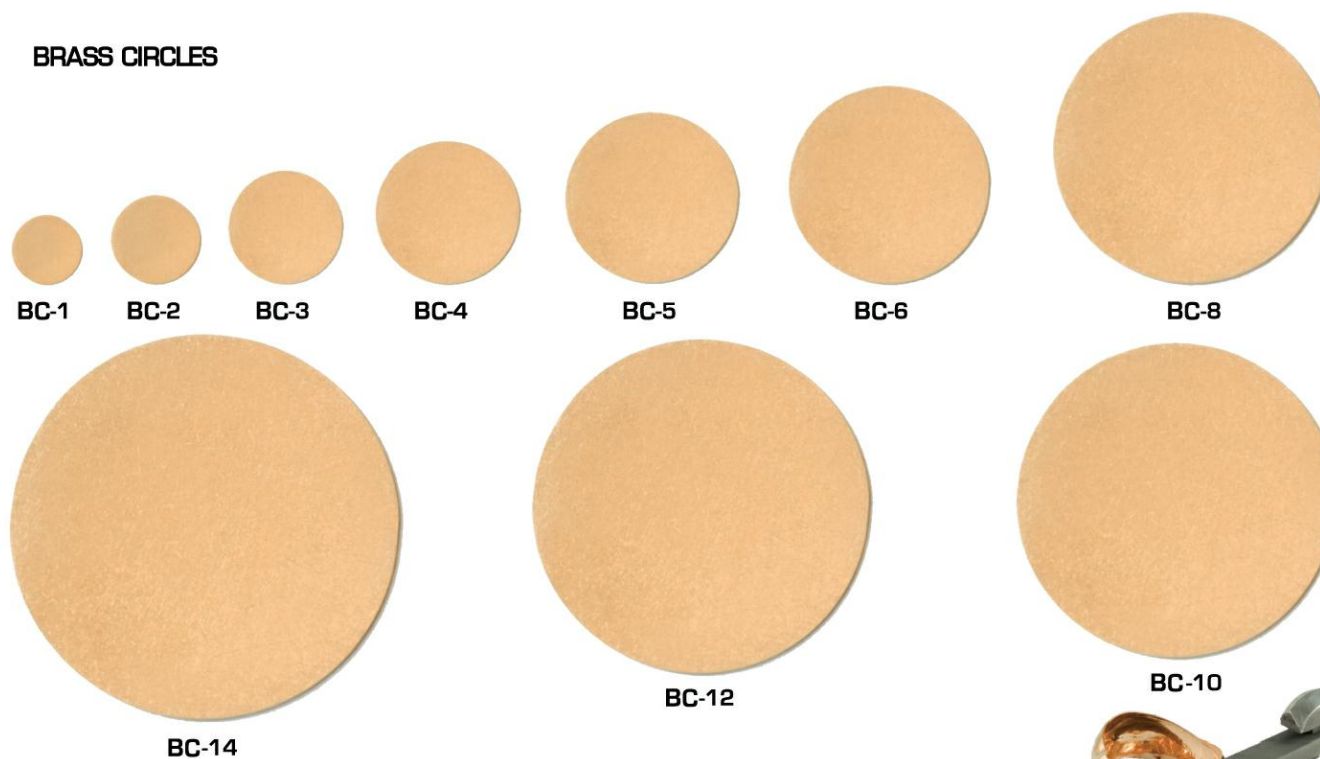
Dimension : 25.4x13mm (1x1/2") x3
Thickness: 18 gauge, .040 inches or . 81mm

BT-12



Dimension : 50.8x88.9mm (2x3 1/2") x 1 unit
Thickness: 18 gauge, .040 inches or . 81mm

BRASS CIRCLES



BC-1 : Diameter 1.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-2 : Diameter 2.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-3 : Diameter 3.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-4 : Diameter 4.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-5 : Diameter 5.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-6 : Diameter 6.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-8 : Diameter 8.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-10 : Diameter 10.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-12 : Diameter 12.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BC-14 : Diameter 14.0"
Thickness : - 19 gauge
- 0.91 mm
- 0.031 inch

BRASS BRACELET FREEFORM BLANK

BF -1



Length : 8.5 " [215 mm]
Width : 1.85 " [48 mm]
Thickness :
19 gauge
0.91 mm
0.031 inch



Here are some finished bracelet samples that were made from the BF-1 bracelet blank.

ARGENTIUM EAR WIRES



EW-1

EW-2

Argentium French Earwires with single ball .

EW-1 20 gauge, Ball: 1.65 mm.
Weight: 0.5 g/pairs

EW-2 19 gauge, Ball: 2.0 mm.
Weight: 0.71 g/pairs



EW-5

EW-6

Argentium French Earwires closed jump ring.

EW-5 20 gauge,
Weight: 0.49 g/pairs

EW-6 19 gauge,
Weight: 0.66 g/pairs



EW-3

EW-4

Argentium French Earwires with 4 balls

EW-3 20 gauge, Ball: 1.65 mm.
Weight: 0.74 g/pairs

EW-4 19 gauge, Ball: 2.0 mm.
Weight: 0.91 g/pairs



EW-7

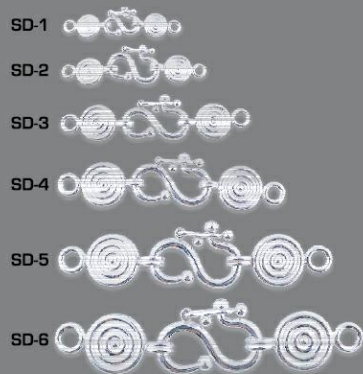
EW-8

Argentium French Earwires closed jump ring.

EW-7 20 gauge,
Weight: 0.49 g/pairs

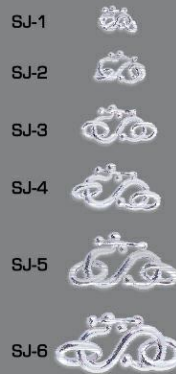
EW-8 19 gauge,
Weight: 0.66g/pairs

ARGENTIUM S-CLASPS WITH DISK ENDS



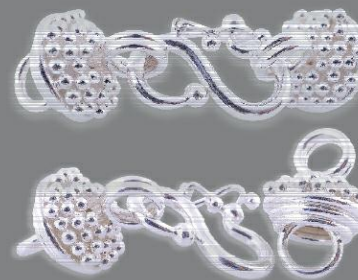
SD-1 :Length: 1.02" (25.9mm)
Width: 0.20" (5.17mm)
Weight: 0.62 gram/Piece
SD-2 :Length: 1.25" (31.74mm)
Width: 0.23" (6.07mm)
Weight: 1.07 gram/Piece
SD-3 :Length: 1.8" (45.71mm)
Width: 0.31" (7.88mm)
Weight: 2.12 gram/Piece
SD-4 :Length: 1.9" (48.25mm)
Width: 0.38" (9.7mm)
Weight: 3.59 gram/Piece
SD-5 :Length: 2.35" (59.68mm)
Width: 0.44" (11.38mm)
Weight: 6.08 gram/Piece
SD-6 :Length: 2.6" (66.03mm)
Width: 0.5" (12.8mm)
Weight: 8.65 gram/Piece

ARGENTIUM S-CLASPS WITH JUMP RINGS



SJ-1 :Length: 0.5" (25.9mm)
Width: 0.25" (6.36mm)
Weight: 0.35 gram/Piece
SJ-2 :Length: 0.65" (16.5mm)
Width: 0.31" (8.01mm)
Weight: 0.6 gram/Piece
SJ-3 :Length: 0.85" (21.58mm)
Width: 0.38" (9.79mm)
Weight: 1.1 gram/Piece
SJ-4 :Length: 1.05" (26.6mm)
Width: 0.47" (11.98mm)
Weight: 2.0 gram/Piece
SJ-5 :Length: 1.5" (31.7mm)
Width: 0.56" (14.28mm)
Weight: 3.7 gram/Piece
SJ-6 :Length: 1.35" (34.28mm)
Width: 0.59" (15.05mm)
Weight: 8.65 gram/Piece

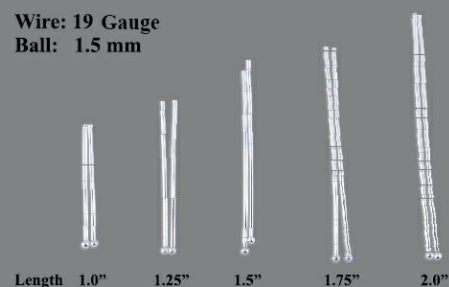
ARGENTIUM GRANULATED S-CLASPS



S-CLASP SIZE # 4
Length : 1.87" (47.5 mm)
Granulated End Diameter :
11.9mm
Weight : 8.16 gram/ Piece

ARGENTIUM HEAD PINS WITH SINGLE BALLS

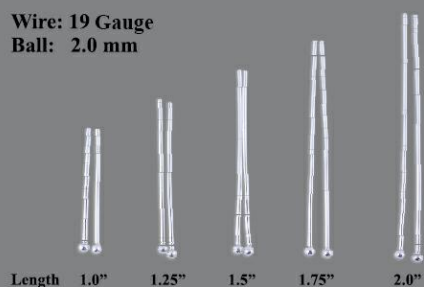
Wire: 19 Gauge
Ball: 1.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PS19-1 : Ball : 1.5 mm/ Length : 1.0"
PS19-2 : Ball : 1.5 mm/ Length : 1.25"
PS19-3 : Ball : 1.5 mm/ Length : 1.5"
PS19-4 : Ball : 1.5 mm/ Length : 1.75"
PS19-5 : Ball : 1.5 mm/ Length : 2.0"

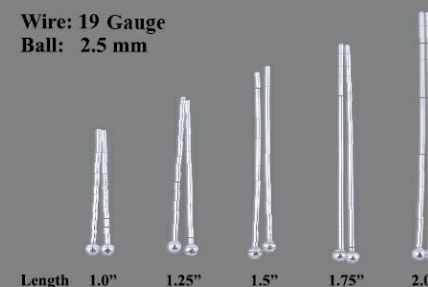
Wire: 19 Gauge
Ball: 2.0 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PS19-6 : Ball : 2.0 mm/ Length : 1.0"
PS19-7 : Ball : 2.0 mm/ Length : 1.25"
PS19-8 : Ball : 2.0 mm/ Length : 1.5"
PS19-9 : Ball : 2.0 mm/ Length : 1.75"
PS19-10 : Ball : 2.0 mm/ Length : 2.0"

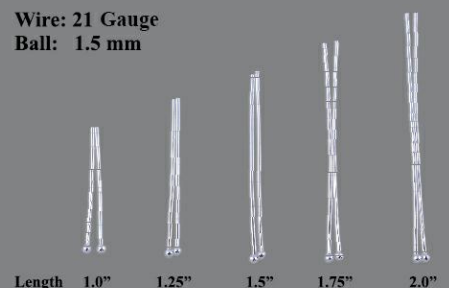
Wire: 19 Gauge
Ball: 2.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PS19-11 : Ball : 2.5 mm/ Length : 1.0"
PS19-12 : Ball : 2.5 mm/ Length : 1.25"
PS19-13 : Ball : 2.5 mm/ Length : 1.5"
PS19-14 : Ball : 2.5 mm/ Length : 1.75"
PS19-15 : Ball : 2.5 mm/ Length : 2.0"

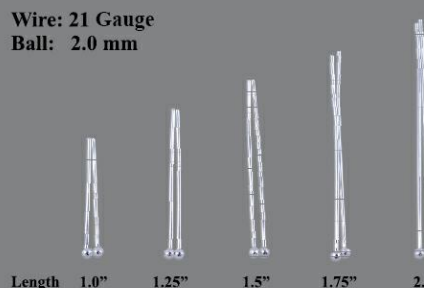
Wire: 21 Gauge
Ball: 1.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PS21-1 : Ball : 1.5 mm/ Length : 1.0"
PS21-2 : Ball : 1.5 mm/ Length : 1.25"
PS21-3 : Ball : 1.5 mm/ Length : 1.5"
PS21-4 : Ball : 1.5 mm/ Length : 1.75"
PS21-5 : Ball : 1.5 mm/ Length : 2.0"

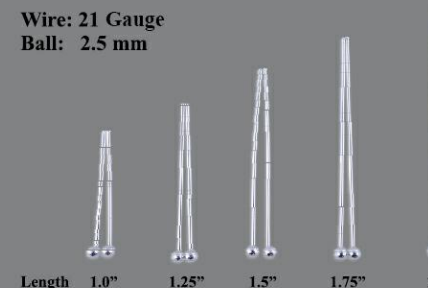
Wire: 21 Gauge
Ball: 2.0 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PS21-6 : Ball : 2.0 mm/ Length : 1.0"
PS21-7 : Ball : 2.0 mm/ Length : 1.25"
PS21-8 : Ball : 2.0 mm/ Length : 1.5"
PS21-9 : Ball : 2.0 mm/ Length : 1.75"
PS21-10 : Ball : 2.0 mm/ Length : 2.0"

Wire: 21 Gauge
Ball: 2.5 mm

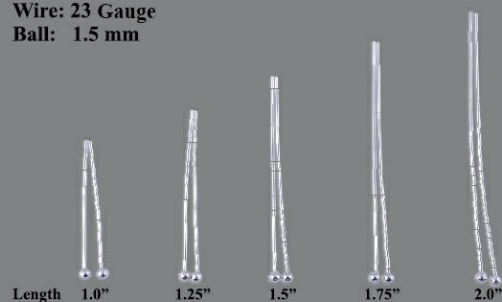


Length 1.0" 1.25" 1.5" 1.75" 2.0"

PS21-11 : Ball : 2.5 mm/ Length : 1.0"
PS21-12 : Ball : 2.5 mm/ Length : 1.25"
PS21-13 : Ball : 2.5 mm/ Length : 1.5"
PS21-14 : Ball : 2.5 mm/ Length : 1.75"
PS21-15 : Ball : 2.5 mm/ Length : 2.0"

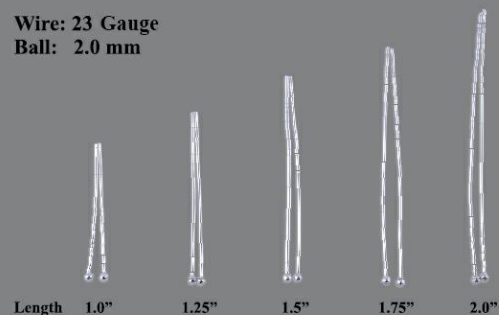
ARGENTIUM HEAD PINS WITH SINGLE BALLS

Wire: 23 Gauge
Ball: 1.5 mm



PS23-1 : Ball : 1.5 mm/ Length : 1.0"
PS23-2 : Ball : 1.5 mm/ Length : 1.25"
PS23-3 : Ball : 1.5 mm/ Length : 1.5"
PS23-4 : Ball : 1.5 mm/ Length : 1.75"
PS23-5 : Ball : 1.5 mm/ Length : 2.0"

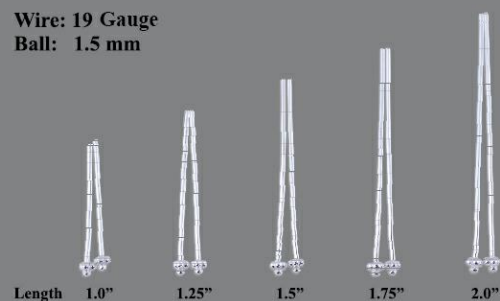
Wire: 23 Gauge
Ball: 2.0 mm



PS23-6 : Ball : 2.0 mm/ Length : 1.0"
PS23-7 : Ball : 2.0 mm/ Length : 1.25"
PS23-8 : Ball : 2.0 mm/ Length : 1.5"
PS23-9 : Ball : 2.0 mm/ Length : 1.75"
PS23-10 : Ball : 2.0 mm/ Length : 1.75"

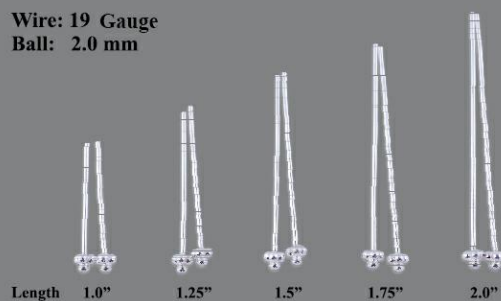
ARGENTIUM HEAD PINS WITH 4 BALL GRANULATED CLUSTERS

Wire: 19 Gauge
Ball: 1.5 mm



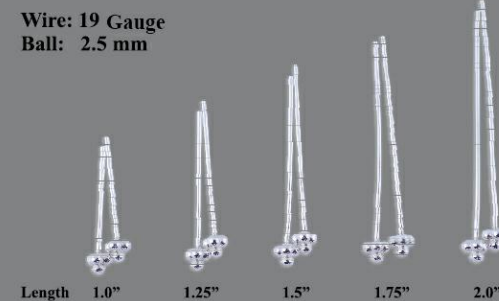
PF19-1 : Ball : 1.5 mm/ Length : 1.0"
PF19-2 : Ball : 1.5 mm/ Length : 1.25"
PF19-3 : Ball : 1.5 mm/ Length : 1.5"
PF19-4 : Ball : 1.5 mm/ Length : 1.75"
PF19-5 : Ball : 1.5 mm/ Length : 2.0"

Wire: 19 Gauge
Ball: 2.0 mm



PF19-6 : Ball : 2.0 mm/ Length : 1.0"
PF19-7 : Ball : 2.0 mm/ Length : 1.25"
PF19-8 : Ball : 2.0 mm/ Length : 1.5"
PF19-9 : Ball : 2.0 mm/ Length : 1.75"
PF19-10 : Ball : 2.0 mm/ Length : 2.0"

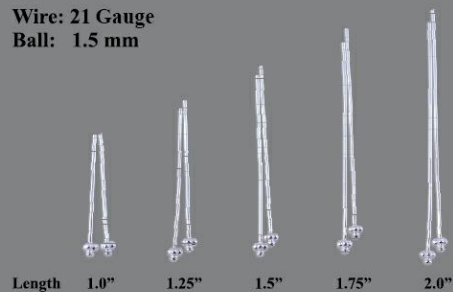
Wire: 19 Gauge
Ball: 2.5 mm



PF19-11 : Ball : 2.5 mm/ Length : 1.0"
PF19-12 : Ball : 2.5 mm/ Length : 1.25"
PF19-13 : Ball : 2.5 mm/ Length : 1.5"
PF19-14 : Ball : 2.5 mm/ Length : 1.75"
PF19-15 : Ball : 2.5 mm/ Length : 2.0"

ARGENTUM HEAD PINS WITH 4 BALL GRANULATED CLUSTERS

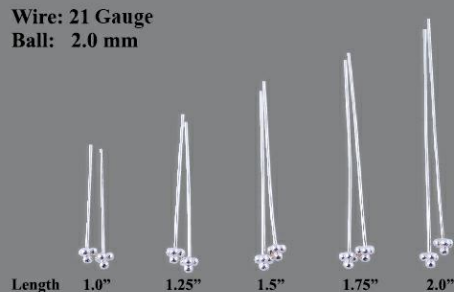
Wire: 21 Gauge
Ball: 1.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PF21-1 : Ball : 1.5 mm/ Length : 1.0"
PF21-2 : Ball : 1.5 mm/ Length : 1.25"
PF21-3 : Ball : 1.5 mm/ Length : 1.5"
PF21-4 : Ball : 1.5 mm/ Length : 1.75"
PF21-5 : Ball : 1.5 mm/ Length : 2.0"

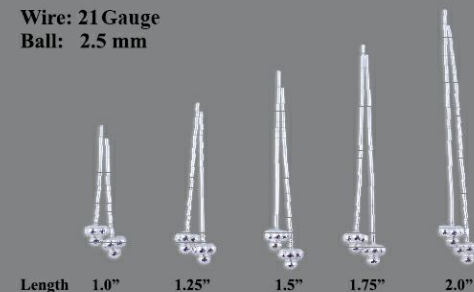
Wire: 21 Gauge
Ball: 2.0 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PF21-6 : Ball : 2.0 mm/ Length : 1.0"
PF21-7 : Ball : 2.0 mm/ Length : 1.25"
PF21-8 : Ball : 2.0 mm/ Length : 1.5"
PF21-9 : Ball : 2.0 mm/ Length : 1.75"
PF21-10 : Ball : 2.0 mm/ Length : 2.0"

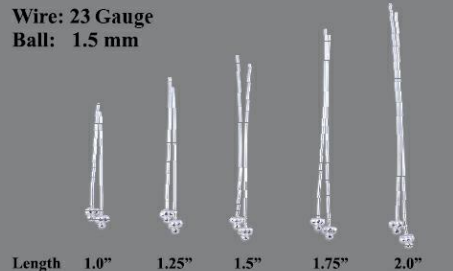
Wire: 21 Gauge
Ball: 2.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PF21-11 : Ball : 2.5 mm/ Length : 1.0"
PF21-12 : Ball : 2.5 mm/ Length : 1.25"
PF21-13 : Ball : 2.5 mm/ Length : 1.5"
PF21-14 : Ball : 2.5 mm/ Length : 1.75"
PF21-15 : Ball : 2.5 mm/ Length : 2.0"

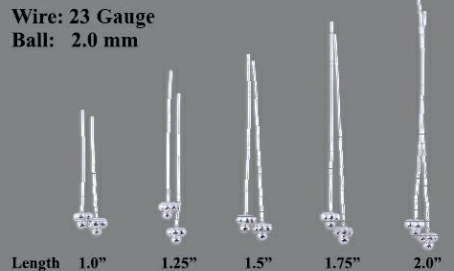
Wire: 23 Gauge
Ball: 1.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PF23-1 : Ball : 1.5 mm/ Length : 1.0"
PF23-2 : Ball : 1.5 mm/ Length : 1.25"
PF23-3 : Ball : 1.5 mm/ Length : 1.5"
PF23-4 : Ball : 1.5 mm/ Length : 1.75"
PF23-5 : Ball : 1.5 mm/ Length : 2.0"

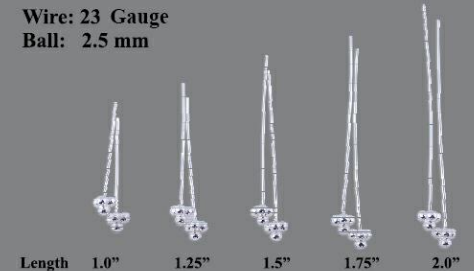
Wire: 23 Gauge
Ball: 2.0 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PF23-6 : Ball : 2.0 mm/ Length : 1.0"
PF23-7 : Ball : 2.0 mm/ Length : 1.25"
PF23-8 : Ball : 2.0 mm/ Length : 1.5"
PF23-9 : Ball : 2.0 mm/ Length : 1.75"
PF23-10 : Ball : 2.0 mm/ Length : 2.0"

Wire: 23 Gauge
Ball: 2.5 mm



Length 1.0" 1.25" 1.5" 1.75" 2.0"

PF23-11 : Ball : 2.5 mm/ Length : 1.0"
PF23-12 : Ball : 2.5 mm/ Length : 1.25"
PF23-13 : Ball : 2.5 mm/ Length : 1.5"
PF23-14 : Ball : 2.5 mm/ Length : 1.75"
PF23-15 : Ball : 2.5 mm/ Length : 2.0"

ARGENTUM GRANULES



Diameter ball : 0.5 mm.
There are three Packaging Specifications as follows:
AG0.5-1/10 Diameter : 0.5 mm/Weight : 1/10 oz
AG0.5-1/3 Diameter : 0.5 mm/Weight : 1/3 oz
AG0.5-1 Diameter : 0.5 mm/Weight : 1.0 oz



Diameter ball : 0.6 mm. There are three Packaging Specifications as follows:
AG0.6-1/10 Diameter : 0.6mm/Weight : 1/10 oz
AG0.6-1/3 Diameter : 0.6mm/Weight : 1/3 oz
AG0.6-1 Diameter : 0.6mm/Weight : 1.0 oz



Diameter ball : 0.7 mm. There are three Packaging Specifications as follows:
AG0.7-1/10 Diameter : 0.7mm/Weight : 1/10 oz
AG0.7-1/3 Diameter : 0.7mm/Weight : 1/3 oz
AG0.7-1 Diameter : 0.7mm/Weight : 1.0 oz



Diameter ball : 0.8 mm. There are three Packaging Specifications as follows:
AG0.8-1/10 Diameter : 0.8 mm/Weight : 1/10 oz
AG0.8-1/3 Diameter : 0.8 mm/Weight : 1/3 oz
AG0.8-1 Diameter : 0.8 mm/Weight : 1.0 oz



Diameter ball : 0.9 mm. There are three Packaging Specifications as follows:
AG0.9-1/10 Diameter : 0.9mm/Weight : 1/10 oz
AG0.9-1/3 Diameter : 0.9mm/Weight : 1/3 oz
AG0.9-1 Diameter : 0.9mm/Weight : 1.0 oz



Diameter ball : 1.0 mm. There are three Packaging Specifications as follows:
AG1.0 -1/10 Diameter : 1.0 mm/Weight : 1/10 oz
AG1.0-1/3 Diameter : 1.0 mm/Weight : 1/3 oz
AG1.0-1 Diameter : 1.0mm/Weight : 1.0 oz



Diameter ball : 1.25 mm. There are three Packaging Specifications as follows:
AG1.25-1/10 Diameter : 1.25 mm/Weight : 1/10 oz
AG1.25-1/3 Diameter : 1.25mm/Weight : 1/3 oz
AG1.25-1 Diameter : 1.25mm/Weight : 1.0 oz



Diameter ball : 1.5 mm. There are three Packaging Specifications as follows:
AG1.5-1/10 Diameter : 1.5mm/Weight : 1/10 oz
AG1.5-1/3 Diameter : 1.5mm/Weight : 1/3 oz
AG1.5-1 Diameter : 1.5mm/Weight : 1.0 oz



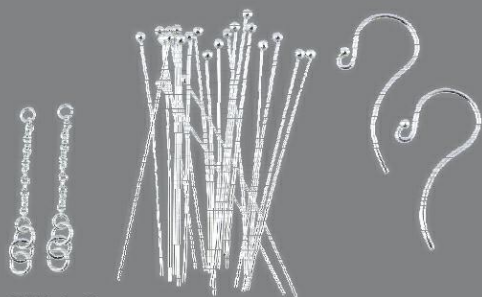
Diameter ball : 1.75 mm. There are three Packaging Specifications as follows:
AG1.75-1/10 Diameter : 1.75mm/Weight : 1/10 oz
AG1.75-1/3 Diameter : 1.75mm/Weight : 1/3 oz
AG1.57-1 Diameter : 1.75mm/Weight : 1.0 oz



Diameter ball : 2.0 mm. There are three Packaging Specifications as follows:
AG2.0-1/10 Diameter : 2.0mm/Weight : 1/10 oz
AG2.0-1/3 Diameter : 2.0mm/Weight : 1/3 oz
AG2.0-1 Diameter : 2.0 mm/Weight : 1.0 oz

CLUSTER KITS

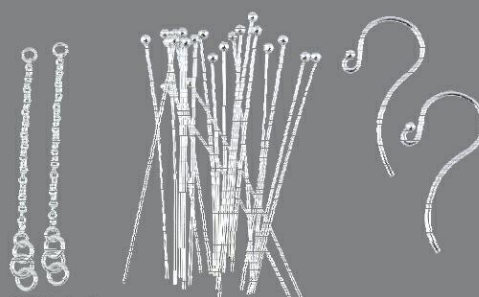
CLUSTER EARING 1.0" KIT



CEK 1.0

Ear wire : 20 gauge Single Ball
Chain Length : 1.0"
Pin Length : 1.46" Head Diameter : 1.55 mm
Pin wire : 23 gauge Weight : 3.4 gram/kit :

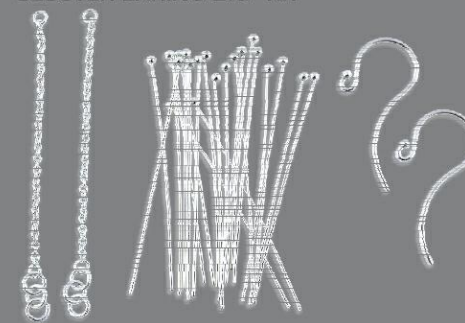
CLUSTER EARING 1.5" KIT



CEK 1.5

Ear wire : 20 gauge Single Ball
Chain Length : 1.5"
Pin Length : 1.46" Head Diameter : 1.55 mm
Pin wire : 23 gauge Weight : 3.5 gram/kit :

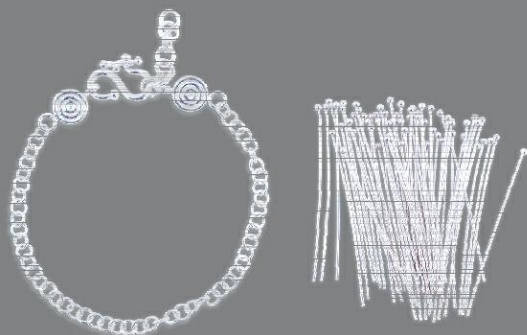
CLUSTER EARING 2.0" KIT



CEK 2.0

Ear wire : 20 gauge Single Ball
Chain Length : 2.0"
Pin Length : 1.46" Head Diameter : 1.55 mm
Pin wire : 23 gauge Weight : 3.6 gram/kit :

CLUSTER BRACELET 7.5" KIT



CBK 7.5

SD-CLASP SIZE # 3
Length : 6.5" / Extra Length : 1.0"
Pin Length : 1.48" Head Diameter : 1.5 mm
Pin wire : 23 gauge Weight : 11.4 gram/kit

CLUSTER BRACELET 8.5" KIT



CBK 8.5

SD-CLASP SIZE # 3
Length : 7.5" / Extra Length : 1.0"
Pin Length : 1.48" Head Diameter : 1.5 mm
Pin wire : 23 gauge Weight : 12.6 gram/kit

FINISHED CLUSTER JEWELRY SAMPLE



Seaglass not included in Cluster Kits.

* SEAGLASS SOLD SEPARATELY *

Fretz Hammers and Stakes are designed by William Fretz and Jordan Fretz.
The tools are made in Jordan' s workshop in Vietnam by skilled craftsmen who take pride in crafting very fine tools.

Each tool was needed in our own work and carefully thought out to continue the tradition of fine craftsmanship.

Fretz Findings are designed by Jordan Fretz. All the Fretz Findings reflect the desire for fine design, quality craftsmanship and functionality.

William Fox Fretz II
Jordan Revere Fretz

FRETZ DESIGN LLC
20 ELM STREET/ PO BOX 1010
BUCKSPORT, MAINE 04416
207-469-2700
info@fretzdesign.com
www.fretzdesign.com

Order From www.micro-tools.com

Φ
FRETZ